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Environmental Health-Related Information
A Bibliographic Guide to Federal Sources for the Health Professional

Technical Resources, Inc., Bethesda, MD

Prepared for

Task Force on Environmental Cancer and Heart and
Lung Disease, Washington, DC

1984

U.S. Department of Commerce
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Task Force on Environmental Cancer and Heart and Lung Disease

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This annotated bibliography cites Federally-funded material on occupational and environmental health issues. Publications and audiovisual material relevant to the prevention, diagnosis, treatment, or limitation of environmentally related disease are included. Some materials listed provide basic information necessary to the understanding of any potential relationship between health and occupational and environmental factors. Materials included are primarily directed toward assisting health professionals to identify and select appropriate materials for updating and expanding their own knowledge and to aiding in the education of their students and patients. It will also help Federal program planners who make decisions relative to future educational resource needs. The bibliography contains 37 subject categories. Information is included on how to obtain cited documents and audiovisual materials.

Appendixes list: Organizations that contributed materials to the bibliography; NCI Cancer Centers; NIOSH Educational Resource Centers; Data bases available from the National Library of Medicine; Federally-funded clearinghouses that have information on environmental and occupational health issues; and Accredited residencies in preventive and occupational medicine.

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1984

Copies of this document may be obtained free-of-charge through requests to

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When this supply is exhausted, the document can be purchased from

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PREFACE

The Task Force on Environmental Cancer and Heart and Lung Disease is an interagency group established by Congress through enactment of Section 402 of Public Law 95-95, the Clean Air Act Amendments of 1977. The Task Force is mandated to determine and quantify the relationship between environmental pollutants and human disease and to recommend and coordinate Federal research programs aimed at reducing or preventing the incidence of environment-related cancer and heart and lung disease. The Task Force is also mandated to stimulate cooperation among its member Agencies. Although such cooperation has existed for some time, the formation of the Task Force formalized and facilitated this cooperation. The Task Force member Agencies are the U.S. Environmental Protection Agency, seven Agencies within the Department of Health and Human Services, and the Department of Energy.

The Interagency Education Program Liaison Group (IEPLG), a subcommittee of the Task Force, originated in October 1979, as a result of a workshop entitled "Environmental Education Needs of Health Professionals." The purpose of the IEPLG is to coordinate and stimulate Federal activities in the area of environmental and occupational health professional education. Chaired by Dr. Max Lum of the Health Resources and Services Administration (HRSA), with Dr. Wilford Nusser of the National Institute of Environmental Health Sciences (NIEHS) as the principal scientist, the IEPLG interacts with both the Federal sector and the private health care community.

This document is the product of the initial program activity of the IEPLG. Future activities, including workshops and seminars, are currently being planned.

ACKNOWLEDGEMENTS

Large-scale interagency data collection and analysis require the efforts of many people. This study, funded by the Task Force on Environmental Cancer and Heart and Lung Disease, was fortunate in having the unselfish assistance and expertise of members of the Task Force's contracted support staff. Jenny Watson did the essential work of tracking down the documents, writing most of the summary reviews, and piecing all the parts together into an integrated volume. Peggy Young coordinated preliminary analyses that influenced the final product and provided the overall management of the effort. Joanna Fringer reviewed all draft copies and offered penetrating comments that greatly improved this report. Marge Newell turned a large mass of data into a coherent compilation.

My colleagues on the Interagency Education Program Liaison Group provided encouragement and enthusiasm even during hectic times. None of them bear responsibility, however, for any shortcomings herein. Dr. Alan Moghissi, the Task Force Project Officer at the Environmental Protection Agency, understood the complexities of interagency data collection. Dr. Maria Pavlova, Chairperson of the Task Force Working Group, supported the effort from beginning to end with her unfailing enthusiasm, energy, and devoted friendship.

I am particularly grateful to the numerous staff members of the participating Agencies who generously gave their time and cooperation. We hope this Guide repays part of our debt to them and contributes to the professional educational goals they serve.

Max R. Lum, Ed.D., M.P.A.
Chairman, IEPLG

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ACRONYMS AND ABBREVIATIONS

AAMC	Association of American Medical Colleges
ACOSH	Arizona Center for Occupational Safety and Health
ACS	American Cancer Society
ACS	American Chemical Society
ADA	American Dental Association
AHA	American Heart Association
AMA	American Medical Association
APA	American Pharmaceutical Association
ARF	Acute respiratory failure
BLS	Bureau of Labor Statistics, DOL
CA	Chemical Abstracts
CAS	Chemical Abstract Service
CDC	Centers for Disease Control
COPD	Chronic Obstructive Pulmonary Disease
CPSC	Consumer Product Safety Commission
CT	Computerized Tomography
D&C	Drug and Cosmetic
DCCP	Division of Cancer Cause and Prevention, NCI (now Division of Cancer Etiology)
DCE	Division of Cancer Etiology, NCI (formerly Division of Cancer Cause and Prevention)
DCPC	Division of Cancer Prevention and Control, NCI (formerly Division of Resources, Centers, and Community Activities)
DHEW	U.S. Department of Health, Education, and Welfare
DHHS	U.S. Department of Health and Human Services

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ACRONYMS AND ABBREVIATIONS (Continued)

DNCP	Diet, Nutrition, and Cancer Program, NCI
DOE	U.S. Department of Energy
DOL	U.S. Department of Labor
DRCCA	Division of Resources, Centers, and Community Activities, NCI (now Division of Cancer Prevention and Control)
EHP	Environmental Health Perspectives
EPA	U.S. Environmental Protection Agency
ERC	Educational Resource Centers
FDA	Food and Drug Administration
FD&C	Food, Drug, and Cosmetic
FY	Fiscal Year
GPO	U.S. Government Printing Office
GSA	General Services Administration
HRA	Health Risk Appraisal
HRSA	Health Resources and Services Administration
HRST	Office of Health Research, Statistics, and Technology, NCHS (now part of the Public Health Service)
IARC	International Agency for Research on Cancer
ICRDB	International Cancer Research Data Bank Program, NCI
IRLG	Interagency Regulatory Liaison Group
MEDLARS	Medical Literature Analysis and Retrieval System
MHS	Medical and Health Sciences
NAP	National Academy Press
NAS	National Academy of Sciences
NCDRH	National Center for Devices and Radiological Health, FDA

ACRONYMS AND ABBREVIATIONS (Continued)

NCHS	National Center for Health Statistics
NCI	National Cancer Institute
NCP	National Cancer Program
ND	No date
NHLBI	National Heart, Lung, and Blood Institute
NHPIC	National Health Planning Information Center
NIAID	National Institute of Allergy and Infectious Diseases
NIEHS	National Institute of Environmental Health Sciences
NIH	National Institutes of Health
NINCDS	National Institute for Neurological and Communicative Disorders and Stroke
NIOSH	National Institute for Occupational Safety and Health
NLM	National Library of Medicine
No.	Number
NRC	National Research Council
NTIS	National Technical Information Service
NTP	National Toxicology Program
OANR	Office of Air, Noise, and Radiation, EPA
OASH	Office of the Assistant Secretary for Health, PHS
OCC	Office of Cancer Communications, NCI
ODPHP	Office of Disease Prevention and Health Promotion, PHS
OPTS	Office of Pesticides and Toxic Substances, EPA
ORAU	Oak Ridge Associated Universities
ORD	Office of Research and Development, EPA

ACRONYMS AND ABBREVIATIONS (Concluded)

OSHA	Occupational Safety and Health Administration, DOL
OTA	Office of Technology Assessment, U.S. Congress
PAHO	Pan American Health Organization
PDQ	Protocol Data Query
PHS	Public Health Service
PL	Public Law
Publ.	Publication
RML	Regional Medical Libraries
RTECS	Registry of Toxic Effects of Chemical Substances
TDB	Toxicology Data Bank
TMI	Three Mile Island
TSCAINV	Toxic Substances Control Act Inventory
U.S.	United States
USAF	U.S. Air Force
USDA	U.S. Department of Agriculture
USSR	Union of Soviet Socialist Republics
VA	Veterans Administration
WHO	World Health Organization

INTRODUCTION

The members of the Interagency Education Program Liaison Group (IEPLG) have been aware of the need to educate and inform health professionals of the interaction between occupational and environmental factors and disease occurrence, prevention, and treatment. That need is complicated by the fact that many health professionals are unaware of the Federally funded resources available on occupational and environmental issues. This annotated bibliographic guide was compiled to inform health professsionals about the materials on occupational and environmental health available from Federal organizations. (For the purposes of this Guide, the term "health professional" refers to physicians, osteopaths, medical students, nurses, nurse-practitioners, physician assistants, medical technologists, and health scientists.)

The information included in this Guide is intended to assist health professionals in identifying and selecting appropriate materials to update and expand their own knowledge and to aid in the education of their students and patients. It is also hoped that the Guide will be used by Federal program planners who make decisions relative to future educational resource needs. Included in the Guide are publications and audiovisual materials relevant to the prevention, diagnosis, treatment, or limitation of environmentally related disease. Some materials listed provide basic information necessary to the understanding of any potential relationship between health and occupational and environmental factors. This Guide is not an exhaustive listing but does include a significant portion of Federally funded materials on occupational and environmental health.

Materials included in the Guide were selected on the basis of Agency input, availability, and currency. Items produced before 1976 were not included, unless they were landmark publications, part of a series, or the only material available on a subject. Professional journal articles were included only if they were reprinted with government funds. Materials included are primarily directed toward the health professional.

The materials listed have not been evaluated and, therefore, their inclusion does not imply endorsement by the Interagency Education Program Liaison Group or the Task Force on Environmental Cancer and Heart and Lung Disease. It is suggested that users review specific items before including them in an educational program.

Suggestions and comments about the subject categories in this Guide were obtained from many Agencies, organizations, and professional associations. The categories cover general issues that are of interest to health professionals. Certain sections also have subheadings that are chemical names. Entries are listed alphabetically by title under each subject category and cross referenced where applicable.

Each entry includes title, author, producer or publisher, date, length, Agency and ordering number where applicable, and a brief description. To obtain an item, contact the source indicated on the last line of each title paragraph. Publishers' and producers' addresses are found in Appendix A. Detailed information about this Guide and how to obtain copies of the listed materials can be found in the section that follows, How to Use This Guide.

To facilitate the use of this Guide as a reference tool, the following Appendixes have been added:

- Appendix B--A descriptive listing of the organizations that contributed materials to this bibliography
- Appendix C--A list of Cancer Centers supported by the National Cancer Institute
- Appendix D--A list of Educational Resource Centers (ERCs) supported by the National Institute for Occupational Safety and Health
- Appendix E--A list of data bases available from the National Library of Medicine
- Appendix F--A list of Federally-funded clearinghouses that have information on environmental and occupational health issues
- Appendix G--A list of accredited residencies in preventive and occupational medicine.

It is hoped that this Guide will be useful to those health professionals and planners interested in occupational and environmental health. Your comments, inquiries, and additional materials are welcome. Please contact:

Dr. Max Lum
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Bureau of Health Professions
Health Resources and Services
  Administration
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or

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10215 Fernwood Road, Suite 408
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(301) 493-5300

HOW TO USE THIS GUIDE

Like most reference books, this Guide is not intended for cover-to-cover reading. Rather, it should be used to solve particular educational needs as identified and formulated by the user. The Guide is designed to help the user ascertain the existence of a publication or audiovisual aid and then obtain copies of the identified educational materials. It is hoped that the Guide provides short cuts through the Federal information system.

Finding What You Want

First, acquaint yourself with the organization of the Guide. There are 37 subject categories, as listed in the Table of Contents, that correspond to the tabbed dividers. The subject categories have been established to cover areas of general interest in environmental and occupational health. For example, if your interest is environmentally related lung disease, you would want to review the subject categories RESPIRATORY SYSTEM and AIR POLLUTION. When you turn to the tabbed section RESPIRATORY SYSTEM, you will find nine pages of citations, arranged alphabetically by title of the publication or audiovisual material.

Looking at the first entry in the RESPIRATORY SYSTEM section, the various parts are as follows:

TITLE: Approach to Diffuse Pulmonary Disease, An.

AUTHOR: I.M. Freundlich

SPONSORING ORGANIZATION: Radiological Society of North America

LENGTH/FORMAT: 175 slides, two 75-minute sound cassettes and pamphlet

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HOW TO OBTAIN:	Contact Chief, Library Service, at local VA Medical Center.
ANNOTATION:	Presents a review for physicians, radiologists, and students. Deals with diffuse pulmonary disease characteristics, such as immune suppression, neoplasms, nodules, air space, filling, hyperaeration, arterial hypertension, and interstitial disease.

Having a general interest in lung disease, you would then review the nine pages of citations in the RESPIRATORY SYSTEM section.

You will also find cross-references to other sections. For example, the second page has the following entry:

> Chronic Obstructive Lung Disease. See LITERATURE SEARCHES--National Technical Information Service.

This directs you to the subject category, LITERATURE SEARCHES (the subject categories are always in capital letters). When you turn to the tabbed section LITERATURE SEARCHES, you will note that the section is divided into two parts: National Library of Medicine Literature Searches, listed alphabetically by title of the search, and National Technical Information Service Literature Searches, also listed alphabetically. Because the cross-reference in RESPIRATORY SYSTEM indicated that the particular search was conducted by the National Technical Information Service, you must turn to the sixth page of LITERATURE SEARCHES, where the listing of National Technical Information Searches begins. Looking through the alphabetical list of searches, you find

TITLE OF SEARCH:	Chronic Obstructive Lung Disease
PERIOD COVERED:	1964 through March 1981

CITATIONS IDENTIFIED: 97 citations

HOW TO OBTAIN: NTIS Order No. PB81-868218

Entries are listed alphabetically by title in the subject categories. In some subject categories--CHEMICAL HAZARDS; FOOD ADDITIVES; ORGANIC SOLVENTS; PESTICIDES, HERBICIDES, AND INSECTICIDES; PHARMACEUTICALS; and TEXTILE AND DYE MANUFACTURING--chemical names are alphabetical subheadings with citations and cross-references listed under the chemical name. In the category CHEMICAL HAZARDS, the interest is specific chemicals, and entries are listed alphabetically by chemical name throughout the section. For example, the third page of the section contains the subheading Arsenic. Listed under that subheading are four citations and three cross-references. The next subheading is Arsenic hydride.

A final important point to note is that the subject category CANCER includes a table listing, in alphabetical order, the chemicals that have been evaluated in the Carcinogenesis Testing Program, National Cancer Institute/National Toxicology Program. This table is found under the entry title Carcinogenesis Bioassay. A report is available for each of the chemicals tested.

Obtaining Copies

As described above, each entry includes specific instructions on how to obtain the publication or audiovisual material. This is the final piece of information in the citation.

When free copies, usually only one copy, are available, the instructions will state where to request them. This will usually be a Federal Agency. The complete names, addresses, and phone numbers for the source of the publication and audiovisual material can be found in Appendix A. (A list of abbreviations begins on page vi.)

Therefore, if the instructions state "Request free single copy from NCI," you turn to Appendix A, and under National Cancer Institute, you will find the name of the appropriate office, the address, and the phone number. Citations will often have a publication number, which you should include in your request.

In some cases, Agencies may no longer have free copies available for distribution. A GPO number and/or NTIS number indicate that copies of publications can be purchased. Unless you have an account with GPO or NTIS, all orders must be prepaid. Therefore, look in Appendix A to find the address or phone number for GPO or NTIS and, stating the appropriate number (GPO or NTIS), request the price of the publication, so that you can include payment with your order.

Likewise, when the supply of free copies of this Guide is exhausted, it can be purchased from NTIS.

AGRICULTURE

Also see PESTICIDES, HERBICIDES, AND INSECTICIDES.

Criteria for a Recommended Standard: Occupational Exposure to Ammonia. NIOSH. 1974. Reprinted August 1979. 107 pp. DHEW (NIOSH) Publ. No. 74-136. NTIS No. PB-246699. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to ammonia. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to ammonia; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Cotton Dust. NIOSH. 1975. DHEW (NIOSH) Publ. No. 75-118. NTIS No. PB-246696. Available from NTIS.

> Recommends a standard to protect workers from exposure to cotton dust. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to cotton dust; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Detection of Mutagenic Properties of Pesticides Used in Commercial Corn Production. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Hazards to Agricultural Workers. HRSA Contract. September 1980. Instructional package. 44 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information concerning major hazards to residents of the farm community. Farm accidents, toxic chemicals, gaseous hazards, physical and environmental hazards, zoonosis, hypersensitivity pneumonitis, and some aspects of the problems of migrant laborers are discussed. Includes learning objectives and bibliography.

Health Risks of Farm Workers. HRSA Grant. September 1980. 30-minute videotape. Available from University of Washington, Health Sciences Learning Resources, SB-56, Seattle, WA 98195.

> Prepared for clinicians. Discusses occupational injuries and illnesses in agriculture. Focuses on potential health hazards from exposure to agriculture chemicals, animals, and technology.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 31. Some Food Additives, Feed Additives, and Naturally Occurring Substances. See CHEMICAL HAZARDS--Overviews.

Plight of the Migrant, The. HRSA Contract. September 1980. 35-minute videotape. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Documentary dealing with migrant farm workers; their living and working conditions, their health problems, their difficulties in obtaining health care, the dangers of pesticide exposure, and some of their efforts to solve the problems.

AIR POLLUTION

Bioindicators of Pollution. See LITERATURE SEARCHES--National Technical Information Service.

Carbon Monoxide Commuter Exposure Data Base: A Five-Day Study in Los Angeles. W.B. Peterson, R.H. Allen, R.A. Ziskind, and M.B. Rogozen. Environmental Sciences Research Laboratory, EPA. October 1981. 77 pp. NTIS No. PB82-103607. Available from NTIS.

> Presents data collected from a five-day field project to assess the exposure of Los Angeles commuters to carbon monoxide (CO). Includes measurements of interior and exterior CO levels and vehicle speed for three vehicles traveling typical commuter routes during the morning and evening peak traffic periods.

Carbon Monoxide Concentrations in Four U.S. Cities During the Winter of 1981. D. Holland and D. Mage. August 1983. NTIS No. PB83-224907. Available from NTIS.

> Describes the results obtained from the use of portable monitors to measure time-averaged personal exposures to carbon monoxide. Data were collected in Stamford, Connecticut; Los Angeles, California; Phoenix, Arizona; and Denver, Colorado; cities where ambient carbon monoxide levels have exceeded the National Ambient Air Quality Standards. Personal exposures were measured indoors, while commuting, and while driving in residential areas. These measurements were made near fixed monitoring stations that recorded ambient levels of carbon monoxide.

Community Air Pollution. HRSA Contract. September 1980. Instructional package. 40 pp. and appendix. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information for clinicians on identifying and classifying types of air pollution and their sources and explains the adverse health effects of each type. Discusses patients particularly at risk from air pollution, and defines the role of the primary care physician in relation to air pollution problems. Includes learning objectives, addresses of air pollution control agencies, and bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Asphalt Fumes. NIOSH. 1978. 152 pp. DHEW (NIOSH) Publ. No. 78-106. GPO No. 017-033-00272-0. NTIS No. PB-277333. Available from GPO and NTIS.

> Recommends a standard to protect workers from exposure to asphalt fumes. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to asphalt fumes; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Decomposition Products of Fluorocarbon Polymers. NIOSH. 1977. 123 pp. DHEW (NIOSH) Publ. No. 77-193. GPO No. 017-033-00234-7. NTIS No. PB-274727. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to decomposition products of fluorocarbon polymers. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to decomposition products of fluorocarbon polymers; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Fibrous Glass. See RESPIRATORY SYSTEM.

Determination of the Effects of Material from Alternate Energy Sources on the Upper Respiratory Tract Clearance Mechanism: Part I and Part II. See RESPIRATORY SYSTEM.

Effects of Short-Term Intermittent Air Pollutants on Incidence and Severity of Acute Respiratory Disease: Data Collection and Quality Assurance. See RESPIRATORY SYSTEM.

Health Effects of Exposure to Diesel Exhausts. National Academy of Sciences. 1981. 169 pp. Available from National Academy Press.

> Analyzes available information on the toxicology and epidemiology of soot particles and chemical compounds found in diesel exhausts. Assesses the adequacy of current and planned research programs for providing a data base for reliable health risk estimates. Bibliography.

Indoor Pollutants. National Academy of Sciences. 1981. 560 pp. Available from National Academy Press.

> Focuses on contaminants found inside homes, schools, public buildings, and other areas of public access. Presents concise reviews of the sources of indoor pollutants, their effects on human health and comfort, and the technology available for their control or abatement. Bibliography.

Medical and Biologic Effects of Environmental Pollutants: Carbon Monoxide. See CHEMICAL HAZARDS--Carbon monoxide.

Medical and Biologic Effects of Environmental Pollutants: Ozone and Other Photochemical Oxidants. National Academy of Sciences. 1977. 719 pp. Available from National Academy Press.

> Discusses the problem of urban pollution. Health effects from exposure to ozone and other photochemical oxidants are analyzed. Each chapter is accompanied by a summary or recommendations or both.

Nitrogen Oxide Air Pollution: Biological Effects. See LITERATURE SEARCHES--National Technical Information Service.

Pulmonary Function and Bronchial Reactivity in Human Subjects with Exposure to Ozone and Respirable Sulfuric Acid Aerosol: An Environmental Chamber Study. T.J. Kulle, H.D. Kerr, B.P. Farrell, and L.R. Sauder. Health Effects Research Laboratory, EPA. September 1982. 144 pp. NTIS No. PB82-255126. Available from NTIS.

> Presents the results of a three-year research study investigating the effects of sulfuric acid aerosol exposure on pulmonary function and of ozone and respirable sulfuric acid aerosol exposure on bronchial activity and pulmonary function.

Respiratory Carcinogenicity of Diesel Fuel Emissions. See RESPIRATORY SYSTEM.

Selected NIOSH Control Technology Publications. NIOSH. October 1982. 6 pp. Request free single copy from NIOSH.

> Lists and annotates selected NIOSH publications on control technologies that can be purchased from GPO or NTIS. Order information included.

Short-Term Screening Test for Quick Responses to Pollutants Where Health Effects Data Are Lacking. See DISEASE PREVENTION AND HEALTH PROMOTION.

Survey of Organic Air Pollutants That Have Been Tested for Carcinogenicity and Mutagenicity, A. NCI. March 1982. 52 pp. Request free single copy from the Office of the Scientific Coordinator for Environmental Cancer, Division of Cancer Etiology, NCI, Landow Building, Room 1D34, Bethesda, MD 20205.

> Discusses the survey and identifies chemicals as potential air pollutants, recognized or suspected carcinogens, tumor promoters/carcinogens, and mutagens or suspected mutagens.

ASBESTOS

Analytical Method for Determination of Asbestos Fibers in Water. E.J. Chatfield, M.J. Dillon, P. Riis, and W.R. Stott. November 1983. NTIS No. 83-260471. Available from NTIS.

> Presents the results of studies directed towards the development of improved techniques for analyzing asbestos in water. The carbon-coated Nuclepore technique was found to a superior method of sample preparation. Ozone-ultraviolet light oxidation of water samples was found to be a good technique for removal of organic materials.

Asbestos. HRSA Contract. September 1980. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

40 slides and cassette tape.

> Deals with the history of asbestos-related diseases and their epidemiology, sources of exposure, and clinical aspects. Intended for clinicians.

30-minute videotape.

> Presents an interview with a former shipyard worker dying of mesothelioma. Illustrates the occupational history and explores the patient's attempts to obtain compensation.

Instructional package. 37 pp.

> Provides information for the primary care physician concerning sources of asbestos exposure. Presents appropriate methods of screening patients and effective preventive and therapeutic management and techniques for appropriate referrals for specialized care. Includes learning objectives, clinical application, and suggested readings. Bibliography.

Asbestos and Health. An Annotated Bibliography of Public and Professional Education Materials. Cancer Information Clearinghouse, Office of Cancer Communications, NCI. August 1978. 68 pp. DHEW Publ. No. (NIH)79-1842. NTIS No. PB-294687/9.

> Lists and annotates publications on asbestos. Contains materials for education of health professionals, the public, and employers. Data compilations and literature reviews included.

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Asbestos and Silicate Pollution. See LITERATURE SEARCHES--National Technical Information Service.

Asbestos: An Information Resource. Prevention Branch, Division of Cancer Control and Rehabilitation, NCI. Reprinted August 1981. 105 pp. and appendixes. NIH Publ. No. 81-1681. NTIS No. HRP-0028011/5. Request free single copy from NCI.

> Examines various aspects of the asbestos problem, including the evidence of carcinogenic potential, exposure of the public, intervention and control technology, and prevention programs. Includes a section listing sources for education materials. Bibliography.

Asbestos: An Ounce of Prevention. GSA and OSHA. N.D. 11-minute cassette. Contact Chief, Library Service, at local VA medical center.

> Describes and demonstrates the safety procedures required for employees working with asbestos, particularly those in fireproofing work, and the health rights of such employees.

Asbestos Exposure. A Desk Reference for Communicators. Office of Cancer Communications, NCI. May 1978. 16 pp. DHEW Publ. No. (NIH) 79-1622. Request free single copy from NCI.

> Provides basic information on risks of exposure to asbestos in the workplace, worker protection, disease recognition, and treatment of asbestos-related diseases. Discusses Federal Agency efforts and activities dealing with asbestos and provides a list of additional information sources. Intended to be used as an aid in communicating with patients with asbestos-related diseases and the general public.

Asbestos: Industrial Applications and Precautions. See LITERATURE SEARCHES--National Technical Information Service.

Asbestos Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Criteria for a Recommended Standard: Occupational Exposure to Asbestos. (Revised). NIOSH. 1977. 100 pp. DHEW (NIOSH) Publ. No. 77-169. GPO No. 017-033-00229-1. NTIS No. PB-273965. Available from GPO and NTIS.

> Recommends a standard to protect workers from exposure to asbestos. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to asbestos; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Development of Improved Analytical Techniques for Determination of Asbestos in Water Samples. E.J. Chatfield, M.J. Dillon, P. Riis, and W.R. Stott. November 1983. NTIS No. PB83-261651. Available from NTIS.

Presents an improved analytical method, described as the best available technology, for determining asbestos fiber concentrations in water samples. The method involves ozone-ultraviolet oxidation of samples, a fiber classification system, a minimum fiber length for reporting, a standardized reporting format, quantitative interpretation of fiber identification data, and a fibrosity index.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 14. Asbestos. See CHEMICAL HAZARDS--Overviews.

NIOSH Publications Concerned with Asbestos. NIOSH. October 1982. 6 pp. Request free single copy from NIOSH.

Lists and annotates selected NIOSH publications on asbestos that can be purchased from GPO or NTIS. Order information included.

Occupational Exposure to Talc Containing Asbestos. NIOSH. 1980. 106 pp. DHEW (NIOSH) Publ. No. 80-115. GPO No. 017-033-00357-2. NTIS No. PB80-193352. Available from GPO and NTIS.

Presents the results from an industry-wide study investigating talc-containing fibrous amphibole minerals as mined and milled in the Gouverneur Talc District in upper New York.

Rapid Screening Technique for Detection of Asbestos Fibers in Water Samples. E.J. Chatfield, M.J. Dillon, P. Riis, and W. R. Stott. November 1983. NTIS No. PB 83-262915. Available from NTIS.

Describes research conducted to develop a rapid technique to detect asbestos fibers in water based on the measurement of the light scattered by magnetically aligned asbestos fibers. Such a method is required because of the cost involved in transmission electron microscope analysis and the need for routine monitoring of water sources where asbestos fibers are known to be present at concentrations of concern.

Teaching Module on Asbestos-Related Disease. Asbestos Working Group, Task Force on Pneumoconiosis. June 1981. 110 pp. Prepared under Contract No. 210-75-0015 for NIOSH and NCI. Available in Medical School Libraries. Illustrated hard cover book available from the American College of Radiology.

Prepared as a teaching resource for medical students. Describes the clinical aspects, epidemiology, pathology, and roentgenology of asbestos-related disease. Includes slides and photographic and radiographic prints.

Workplace Exposure to Asbestos: Review and Recommendations. NIOSH. November 1980. 39 pp. DHHS (NIOSH) Publ. No. 81-103. GPO No. 017-033-00376-9. Available from GPO.

Presents the conclusions and recommendations of a joint NIOSH/OSHA committee formed to review the scientific information concerning asbestos-related diseases and to assess the adequacy of the current OSHA standard. Includes information on sampling and analysis of airborne asbestos, current standards, recommended standards, and medical surveillance programs. Bibliography.

CANCER

Adult Patient Education in Cancer. Office of Cancer Communications, NCI. September 1982. 54 pp. Request free single copy from NCI.

> Examines the state of the art in cancer patient education and points out the special educational needs for cancer patients. Programs and activities for meeting these needs and planning and evaluation of these activities are also discussed. Bibliography.

Aspects of Prevention: Focusing on Cancer. NCI Contract. 1979. Instructional package. Available from S.B. Greenberg, M.S., Director, Physician Assistant Program, 202 Robinson Hall, Boston, MA 02115.

> Provides an introduction to the present state of the art in cancer prevention and tools that can be used to assess new data as they evolve. Contains both printed and audiovisual materials, as well as tests, examinations, and references for further reading. Targeted to physician assistant students but would also have relevance for the nurse-practitioner, medical student, and resident.

Assessment of Technologies for Determining Cancer Risks From the Environment. Office of Technology Assessment, U.S. Congress. June 1982. 240 pp. GPO No. 052-003-00832-1. Available from GPO. Request free 28-page summary from OTA.

> Evaluates the data sources used for determining trends in cancer occurrence and mortality. Reviews estimates of the contribution of various factors, behaviors, and exposures associated with cancer in the United States. Bibliography.

Atlas of Cancer Mortality for U.S. Counties: 1950-1969. T.J. Mason et al. NCI. 1975. 103 pp. DHEW Publ. No. (NIH) 75-780. Out of print. Available at various libraries.

> Contains maps that identify counties and economic and social areas within states with elevated cancer rates. Summary tables are presented that include age-specific rates for each cancer site and the distribution of both the age-adjusted rates and the number of deaths.

Breast Cancer. A Report to the Profession: Conservative Surgery Skills. White House Conference on Breast Cancer, NCI and ACS. 1976. 42-minute cassette and self-assessment exam. Contact Chief, Library Service, at local VA medical center.

> Contains information on the merits of the traditional radical surgery for breast cancer presented by specialists from three nations: Great Britain, Italy, and the United States.

Breast Cancer Digest, The. A Guide to Medical Care, Emotional Support, Educational Programs, and Resources. Office of Cancer Communications, NCI. Reprinted December 1980. NIH Publ. No. 81-1691. 165 pp. Request free single copy from NCI.

> Presents an overview of breast cancer for health professionals, especially health program planners and communicators. Contains chapters that deal with the medical and emotional components of breast cancer detection, diagnosis, and treatment, rehabilitation, and breast reconstruction. Includes a listing of information and education programs and state resources.

Bronchoscopic Features of Chronic Inflammation. See RESPIRATORY SYSTEM.

Cancer Detectives of Lin Xian, The. Time-Life Video. 1980. 57-minute cassette. Contact Chief, Library Service, at local VA medical center.

> Discloses for physicians the Chinese scientists' campaign against cancer of the esophagus. It shows that the Chinese approach to eradicating cancer lies not in basic cell research as it does in the West, but rather on eliminating the suspected environmental causes of the disease.

Cancer: Etiology, Pathophysiology and Prevention. NCI Contract. 1979. Instructional package. Available from R.W. Ingersoll, Ph.D., or A.D. Weinberg, Ph.D., Education Division, The Methodist Hospital, M.S. A-701, 6535 Fannin Street, Houston, TX 77030.

> Consists of 21 one-hour sessions with 18 printed self-instructional modules serving as the basis for the sessions. The focus of 12 of these modules is primary and secondary prevention related to each of the major cancer sites most commonly seen by the primary physician. Six other modules used in the course cover special topics related to cancer prevention such as potential hazards of radiation, smoking cessation, and physicians' role in cancer prevention. Intended for clinical-level undergraduate medical students.

Cancer Patient, The. See DIET AND NUTRITION.

Cancer Patient Survival. Report Number 5. Cancer Surveillance, Epidemiology, and End Results Program, Division of Cancer Cause and Prevention, NCI. 1976. 315 pp. NIH Publ. No. 81-992. Request free single copy from NCI.

> Reports on the survival experience of cancer patients covering the period 1950 to 1973. Data sources are cancer patients in the state of Connecticut, approximately one-fifth of the cancer patients in the state of California, and all cancer patients at two teaching hospitals--Charity Hospital in New Orleans and the University of Iowa Hospital. Data are provided on age, sex, race, the nature of the disease, date of diagnosis, treatment, vital status, and date of last follow-up for each patient.

Cancer Patient Survival Experience. M.H. Myers and B.F. Hankey. Division of Cancer Cause and Prevention, NCI. June 1980. 15 pp. NIH Publ. No. 80-2148. Request free single copy from NCI.

Contains analyses of trends in survival for patients of all ages by sex, race (black and white), and site; trends in survival for white childhood (less than 15 years of age) cancer patients by site; black-white survival comparisons by sex and site; and long term survival patterns for the eight most frequently occurring cancers.

Cancer Prevention. NCI Contract. 1979. Instructional package. Available from R.G. Bridgham, M.D., Office of Medical Education Research and Development, College of Human Medicine, Michigan State University, East Lansing, MI 48824.

Emphasizes the primary and secondary prevention of cancer, with special attention given to the opportunities for preventive practice available to the primary care physician. This self-instructional course is organized into eight modules, each of which can be used independently. Intended for medical students and residents.

Cancer Prevention: A Course for Nurse Practitioners. NCI Contract. 1979. Instructional package. Available from C.R. Ash, R.N., M.A., Director, Nursing Education, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. (212) 794-6903.

Includes information on prevention, etiology, risk factors, screening and detection, advocacy, the expanded role of the nurse in preventive health care, and concepts related to these areas from the fields of sociology, psychology, education, economics, research, and management.

Cancer Prevention for Clinicians. NCI Contract. 1979. Instructional package. Available from R.R. Love, M.D., Cancer Prevention Program, Wisconsin Clinical Cancer Center, University of Wisconsin--Madison, 1300 University Avenue, Room 7615 MSC, Madison, WI 53706. (608) 263-2762.

Emphasizes behavioral approaches to primary and secondary prevention. Current knowledge and skills in causation and prevention are reviewed for the application to the clinical setting. Curricular goals are to define and present for clinical practice 1) a strategy for cancer risk factor identification, 2) approaches for cancer risk factor reduction, 3) elements of the practice of secondary prevention of cancer, 4) strategies for implementation of secondary prevention, and 5) an interdisciplinary health care team approach for incorporating strategies for risk factor reduction and secondary preventive oncology into clinical practice. The course has been designed to be taught as 12 two-hour modules with student preparation of one to two hours per module. The course can also be conducted as a self-study program.

Cancer Prevention for Physician Assistants. NCI Contract. 1979. Instructional package. Available from J.D. Hoban, Ed.D., Director, Office of Educational Research and Services, Bowman Gray School of Medicine of Wake Forest University, 300 South Hawthorne Road, Winston-Salem, NC 27103.

> Designed as an intensive one or two-week course. Includes four self-instructional books and recommends five videotapes, research articles, and oncology textbooks to supplement the self-instructional materials. Provides a variety of learning activities, including 1) an orientation session, 2) journal club seminars, 3) a health hazard appraisal session, 4) a community diagnosis exercise, 5) a community resources practicum, and 6) smoking cessation seminars.

Cancer Testing Technology and Saccharin. Office of Technology Assessment, U.S. Congress. October 1977. 149 pp. OTA-H-55. GPO No. 052-003-00471-2. NTIS No. PB-273499. Available from GPO and NTIS.

> Assesses the capability of current testing methodology to predict the carcinogenic potential of chemicals consumed by humans. Specifically evaluates the potential hazards and health benefits of saccharin and the availability of alternative artificial sweeteners.

Cancer Therapy by Hyperthermia. See LITERATURE SEARCHES--National Technical Information Service.

Cancer Treatment: Patient Information. An Annotated Bibliography of Patient Information and Educational Materials. Cancer Information Clearinghouse, Office of Cancer Communications, NCI. June 1980. Reprinted April 1981. 31 pp. NIH Publ. No. 81-2152. Request free single copy from NCI.

> Contains an annotated bibliography of materials available for use in patient education programs. Materials listed represent a variety of therapeutic modalities.

Cancer Treatment Reports. Scientific Information Branch, Division of Cancer Treatment, NCI. Subscription available from GPO.

> Contains reports on original laboratory and clinical research in the following areas: surgery, radiotherapy, chemotherapy, immunotherapy, supportive care, pharmacology, cell biology and kinetics, mechanisms of drug action, and medicinal chemistry.

Cancergram. International Cancer Research Data Bank, NCI. Published monthly. Subscription available from NTIS.

> Contains abstracts of selected cancer-related articles recently published in more than 3,000 journals and dealing with topics in areas related to carcinogenesis.

Carcinogen Bioassay Methodology. See LITERATURE SEARCHES--National Technical Information Service.

Carcinogens Found in the Petroleum and Petrochemical Industries. See LITERATURE SEARCHES--National Technical Information Service.

Carcinogens--Regulation and Control. A Management Guide to Carcinogens--Regulation and Control. NIOSH. August 1977. 77 pp. DHEW (NIOSH) Publ. No. 77-205. Request free single copy from NIOSH.

Discusses chemical carcinogens found in the workplace. Presents OSHA standards and includes recommendations for the technical management of compliance.

Carcinogens--Regulation and Control. Working with Carcinogens--A Guide to Good Health Practices. NIOSH. August 1977. 50 pp. DHEW (NIOSH) Publ. No. 77-206. Request free single copy from NIOSH.

Developed for use as an introduction to occupational carcinogenesis. Consists of a nontechnical discussion of cancer, carcinogens, and requirements of the 1974 OSHA standards for 14 carcinogens. Designed to inform production workers, first-line supervisory, and other nontechnical management personnel of the provisions of these standards.

Carcinogenesis Bioassay. Carcinogenesis Testing Program, National Toxicology Program: NCI, NIEHS, FDA, and NIOSH.

Listed below are chemicals that have been evaluated in the Carcinogenesis Testing Program, National Cancer Institute/National Toxicology Program. The bioassays represent a series of experiments designed to determine whether selected chemicals have the capacity to produce cancer in animals, and thus, may be carcinogenic in humans. Each report provides complete details and conditions of the experiment, test results, and a brief overview of production and use of the chemical.

The majority of the reports can be purchased from NTIS. The remainder are found in the following articles:

Journal A:	Weisburger, E.K. 1977. Bioassay program for carcinogenic hazards of cancer chemotherapeutic agents. Cancer 40:1935-949.
Journal B:	Toth, B., Raha, C.R., Wallcave, L., and Nagel, D. 1981. Attempted tumor induction with agritine in mice. Anticancer Res. 1:255-58.
Journal C:	Murthy, A.S.K., Baker, J.R., Smith, E.R., and Wade, G.G. 1977. Development of hemangiosarcomas in B6C37$_1$ mice fed 2-methyl-1-nitroanthraquinone. Int. J. of Cancer 19:117-21.

Chemical	NTIS Number
Acetohexamide	PB-284673
Acronycine	PB-283347
Actinomycin D	Journal A
Agar	PB82-227588
Agaritine	Journal B
Aldicarb	PB-298511
Aldrin	PB-275666
Allyl chloride	PB-287516
Allyl isothiocyanate	PB83-144238
Allyl isovalerate	PB83-218214
Amiben	PB-273065
2-Aminoanthraquinone	PB-287739
3-Amino-4-ethoxyacetanilide	PB-285194
3-Amino-9-ethylcarbazole, hydrochloride	PB-287126
1-Amino-2-methylanthraquinone	PB-286852
4-Amino-2-nitrophenol	PB-286189
2-Amino-5-nitrothiazole	PB-283346
11-Aminoundecanoic acid	PB82-225640
Anilazine	PB-287141
Aniline hydrochloride	PB-287539
o-Anisidine hydrochloride	PB-285879
p-Anisidine hydrochloride	PB-286951
o-Anthranilic acid	PB-278883
Aroclor 1254	PB-279624
L-Ascorbic acid	PB83-201194

Chemical	NTIS Number
Aspirin, phenacetin, and caffeine	PB-284684
5-Azacytidine	PB-279526
Azathioprine	Journal A
Azinphosmethyl	PB-286371
Azobenzene	PB-293835
Benzoin	PB80-217953
p-Benzoquinone dioxide	PB-291501
1,2,3-Benzotriazole	PB-285202
2-Biphenylamine hydrochloride	PB83-138842
1,3-Bis(chloroethyl)-1-nitrosourea	Journal A
Bis(2-chloro-1-methylethyl) ether (1979 study on rat and mouse)*	PB-299741
Bis(2-chloro-1-methylethyl) ether (1983 study on mouse)*	PB83-169615
4,4'-Bis(dimethylamino)benzophenone	PB-299855
(±)Bis-4,4'-(1-methyl-1,2-ethanediyl)-2,6-piperazinedione	PB-285853
Bisphenol A	PB82-184060
Butylated hydroxytoluene (BHT)	PB-298539
Butyl benzyl phthalate	PB83-118398
Calcium cyanamide	PB-293625
Caprolactam	PB82-190182
Captan	PB-273475
Carbromal	PB-290130
Chlorambucil	Journal A

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* Route of exposure different.

Chemical	NTIS Number
Chlordane	PB-271977
Chlordecone (Kepone)	PB-264041
4'-(Chloroacetyl)-acetanilide	PB-288754
p-Chloroaniline	PB-295896
Chlorobenzilate	PB-287123
(2-Chloroethyl)trimethylammonium chloride	PB-293627
Chloroform	PB-264018
2-(Chloromethyl)pyridine hydrochloride	PB-295895
3-(Chloromethyl)pyridine hydrochloride	PB-287125
4-Chloro-m-phenylenediamine	PB-285201
4-Chloro-o-phenylenediamine	PB-283362
2-Chloro-p-phenylenediamine sulfate	PB-286370
Chloropicrin	PB-282311
Chlorothalonil	PB-286369
3-Chloro-p-toluidine	PB-287401
5-Chloro-o-toluidine	PB-291468
4-Chloro-o-toluidine hydrochloride	PB-295864
Chlorpropamide	PB-275178
C.I. Acid Red 14	PB82-201468
C.I. Direct Black 38	PB-280204
C.I. Direct Blue 6	PB-280204
C.I. Direct Brown 95	PB-280204
C.I. Disperse Yellow 3	PB82-230061
C.I. Vat Yellow 4	PB-288821
C.I. Solvent Yellow 14	PB83-126474

Chemical	NTIS Number
Cinnamyl anthranilate	PB81-143141
Clonitralid	PB-287124
Coumaphos	PB-290305
m-Cresidine	PB-286188
p-Cresidine	PB-295835
Cupferron	PB-287409
Cyclophosphamide	Journal A
Cytarabine	Journal A
Cytembena	PB82-163312
Cytoxyl alcohol	Journal A
Dacarbazine	Journal A
Daunomycin	Journal A
o,p'-DDD (o,p'-Dichlorodiphenyl dichloroethane)	Journal A
Diallyl phthalate	PB83-200824
2,4-Diaminoanisole sulfate	PB-279940
2,4-Diaminotoluene	PB-293593
Diarylanilide yellow	PB-278272
Diazinon	PB-293889
Dibenzo-p-dioxin	PB-288475
1,2-Dibromo-3-chloropropane (1978 study)*	PB-277472
1,2-Dibromo-3-chloropropane (1982 study)*	PB82-225632
Dibromodulcitol	Journal A
1,2-Dibromoethane (1978 study)*	PB-288428
1,2-Dibromoethane (1982 study)*	PB82-181710

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* Route of exposure different.

Chemical	NTIS Number
Dibromomannitol	Journal A
Dibutyltin diacetate	PB-291567
2,7-Dichlorodibenzo-p-dioxin (DCDD)	PB-290570
Dichlorodiphenylethylene	PB-286367
Dichlorodiphenyltrichloroethane	PB-286367
1,1-Dichloroethane	PB-283345
1,2-Dichloroethane	PB-285968
Dichloromethotrexate	Journal A
2,6-Dichloro-p-phenylenediamine	PB82-184052
Dichlorvos	PB-270937
Dicofol	PB-286206
N,N'-Dicyclohexylthiourea	PB-281539
Dieldrin (study on rat and mouse)	PB-275666
Dieldrin (study on rat)	PB-275676
Di(2-ethylhexyl)adipate	PB82-185927
Di(2-ethylhexyl)phthalate	PB82-184011
Di(p-ethylphenyl)dichloroethane	PB-290582
N,N'-Diethylthiourea	PB-288626
Dimethoate	PB-264367
2,4-Dimethoxyaniline hydrochloride	PB-288625
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	PB-290154
Dimethyl terephthalate	PB-299903
2,4-Dinitrotoluene	PB-280990
1,4-Dioxane	PB-285711
Dioxathion	PB-286185

Chemical	NTIS Number
2,5-Dithiobiurea	PB-291534
Emetine	PB-278891
Endosulfan	PB-281731
Endrin	PB-288461
Estradiol mustard	PB-285787
Ethionamide	PB-285193
Ethylenediaminetetraacetic acid (EDTA)	PB-270938
Ethyl tellurac	PB-298513
FD&C Yellow No. 6	PB82-117433
Fenaminosulf, Formulated	PB-287443
Fenthion	PB-293832
Fluometuron	PB80-217904
Guanazole	Journal A
Guar gum	PB82-202813
Gum arabic	PB82-229584
Heptachlor	PB-271967
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (study on rat and mouse)*	PB80-124844
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (study on mouse)*	PB80-124836
Hexachloroethane	PB-282668
Hexachlorophene	PB-279525
Hydrazobenzene	PB-285791
Hydroxyurea	Journal A
3,3'-Iminobis-1-propanol dimethylsulfonate (ester) hydrochloride (IPD)	PB-277455

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* Route of exposure different.

Chemical	NTIS Number
Iodoform	PB-286344
Isophosphamide	PB-275677
Lasiocarpine	PB-278641
Lead dimethyldithiocarbamate	PB-298512
Lindane	PB-273480
Lithocholic acid	PB-288476
Locust bean gum	PB82-163320
Lomustine	Journal A
Malaoxon	PB-299858
Malathion (1978 study on rat and mouse)	PB-278527
Malathion (1979 study on rat)	PB-300301
D-Mannitol	PB83-129080
Melamine	PB83-202630
Melphalan	Journal A
dl-Menthol	PB-288761
6-Mercaptopurine	Journal A
Merphalan	Journal A
Methotrexate	Journal A
Methoxychlor	PB-278271
Methyl CCNU (4-Methylcyclohexyl)-2-(chloroethyl)nitrosourea	Journal A
4,4'-Methylenebis(N,N-dimethyl)benzenamine	PB-299856
4,4'-Methylenedianiline dihydrochloride	PB83-238824
6-Methylmercaptopurine ribonucleoside	Journal A
2-Methyl-1-nitroanthraquinone (study on rat)	PB-277439

Chemical	NTIS Number
2-Methyl-1-nitroanthraquinone (study on mouse)	Journal C
Methyl parathion	PB-295891
Mexacarbate	PB-287471
Mitomycin C	Journal A
1,5-Napthalenediamine	PB-287646
N-(1-Naphthyl)ethylenediamine dihydrochloride	PB-289733
Nithiazide	PB-295897
NTA (Nitrilotriacetic acid) and nitrilotriacetic acid, trisodium salt monohydrate	PB-266177
5-Nitroacenaphthene	PB-287347
3-Nitro-p-acetophenetide	PB-299857
5-Nitro-o-anisidine	PB-287411
4-Nitroanthranilic acid	PB-286942
6-Nitrobenzimidazole	PB-293834
Nitrofen (1978 study)	PB-277440
Nitrofen (1979 study)	PB-296038
1-Nitronaphthalene	PB-282310
2-Nitro-p-phenylenediamine	PB-290304
4-Nitro-o-phenylenediamine	PB-290306
3-Nitropropionic acid	PB-281102
N-Nitrosodiphenylamine	PB-298275
p-Nitrosodiphenylamine	PB-295100
b-Nitrostyrene and styrene	PB-300949
5-Nitro-o-toluidine	PB-285872
4,4'-Oxydianiline	PB-217938

Chemical	NTIS Number
Parathion	PB-288803
Pentachloroethane	PB83-206748
Pentachloronitrobenzene	PB-281732
Phenazopyridine hydrochloride	PB-286207
Phenesterin	PB-283361
Phenformin	PB-266176
Phenol	PB80-217946
Phenoxybenzamine hydrochloride	PB-285095
p-Phenylenediamine dihydrochloride	PB-290124
1-Phenyl-3-methyl-5-pyrazolone	PB-287122
N-Phenyl-p-phenylenediamine	PB-285856
1-Phenyl-2-thiourea	PB-287357
Phosphamidon	PB-288800
Photodieldrin	PB-274393
Phthalamide	PB-293831
Phthalic anhydride	PB-293594
Picloram	PB-276471
Piperonyl butoxide	PB-288753
Piperonyl sulfoxide	PB-288778
Pivalolactone	PB-287645
Polybrominated biphenyl mixture (Firemaster FF-1)	PB83-240473
Prednisone	Journal A
Procarbazine hydrochloride (1977 study)	Journal A
Procarbazine hydrochloride (1979 study)	PB-299902

Chemical	NTIS Number
Proflavin hydrochloride	PB-268553
Propyl gallate	PB83-180042
Pyrazinamide	PB-280251
Pyrimethamine	PB-282608
D & C Red 9	PB82-229592
Reserpine	PB83-165761
Selenium sulfide (study on rat and mouse)*	PB82-164955
Selenium sulfide (study on mouse)*	PB82-165291
Selsun	PB82-164542
Sodium diethyldithiocarbamate	PB-293833
Stannous chloride	PB82-242553
Streptozoticin	Journal A
Styrene	PB-300977
Succinic acid 2,2-dimethylhydrazide	PB-285073
Sulfallate	PB-286386
Sulfisoxazole	PB-288779
3-Sulfolene	PB-284656
4,4'-Sulfonyldianiline	PB-274394
Tara gum	PB82-195546
2,3,7,8-Tetrachloro-dibenzo-p-dioxin*	PB82-163445
2,3,7,8-Tetrachloro-dibenzo-p-dioxin*	PB82-163684
TDE (Tetrachlorodiphenylethane)	PB-286367
1,1,1,2-Tetrachloroethane	PB83-218206

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* Route of exposure different.

Chemical	NTIS Number
1,1,2,2-Tetrachloroethane	PB-277453
Tetrachloroethylene	PB-272940
2,3,5,6-Tetrachloro-4-nitroanisole	PB-287642
Tetrachlorvinphos	PB-278650
Tetraethylthiuram disulfide	PB-298154
4,4'-Thiodianiline	PB-280360
beta-Thioguanidine deoxyriboside	PB-281540
Titanium dioxide	PB-288780
Tolazamide	PB-284610
Tolbutamide	PB-274483
2,6-Toluenediamine dihydrochloride	PB80-217912
2,5-Toluenediamine sulfate	PB-287127
o-Toluidine hydrochloride	PB-290908
Toxaphene	PB-292290
1,1,1-Trichloroethane	PB-265082
1,1,2-Trichloroethane	PB-283337
Trichloroethylene	PB-264122
Trichlorofluoromethane	PB-286187
2,4,6-Trichlorophenol	PB-293770
Trifluralin	PB-278610
2,4,5-Trimethylaniline	PB-293802
Trimethylphosphate	PB-285851
Trimethylthiourea	PB-288802
Triphenyltin hydroxide	PB-287399
Tris(aziridinyl)-phosphine sulfide	PB-285702

Chemical	NTIS Number
Tris(2,3-dibromopropyl) phosphate	PB-280271
L-Tryptophan	PB-285792
Uracil Mustard	Journal A
Vinblastine	Journal A
Vincristine	Journal A
Vinylidene chloride	PB82-258393
Zearalenone	PB83-165753
Ziram	PB83-202622

Carcinogenicity Testing Methods. See LITERATURE SEARCHES--National Technical Information Service.

Carcinoma of the Lung. See RESPIRATORY SYSTEM.

Compilation of Experimental Cancer Therapy Protocol Summaries. International Cancer Research Data Bank, NCI. April 1983. Seventh Edition. 804 pp. NIH Publ. No. 83-1116. NTIS No. PB83-169573. Available from NTIS.

> Intended to provide one convenient source of information on the nature and scope of the new procedures, new agents, and new combinations of modalities/agents for treating cancer patients that are being tested in experimental clinical trials worldwide. The information in this publication is available for online searching on the NLM's computer database, CLINPROT.

Coping with Cancer. A Resource for the Health Professional. Office of Cancer Communications, NCI. September 1980. 145 pp. NIH Publ. No. 80-2080. Request free single copy from NCI.

> Examines the dimensions of coping behavior as it occurs in daily life during illness and suggests approaches used by cancer patients in adapting to their illness. Contains discussions of cancer in the adult and in the child. Information is provided on the financial and the psychological impact of cancer on family members.

Course on Cancer Prevention for Physician Assistants, A. NCI Contract. 1979. Instructional package. Available from R.E. Roush, M.D., W.A. Thomson, M.D., or C.E. Fasser, Center for Allied Health Professions, Baylor College of Medicine, 1200 Moursund Avenue, Houston, TX 77030. (713) 790-4611.

> The course is a series of 13 educational modules that have been developed to enhance and complement physician assistant students' knowledge of and experience with cancer, including prevention and detection of the disease and rehabilitation of persons who experience it.

Current Topics in Brachytherapy Symposium. See RADIATION.

Diet and Cancer: Etiology and Prevention. See LITERATURE SEARCHES--National Library of Medicine.

Directory of Cancer Research Information Resources. International Cancer Research Data Bank Program, NCI. April 1981. 264 pp. Request free single copy from the ICRDB Program, NCI.

> References computerized and published sources of cancer information in the United States and internationally. Includes relevant organizations, registries, dial-access services, libraries, classification schemes, special collections, and audiovisual information sources.

Environmental and Occupational Health: Aspects in Disease Prevention. NCI Contract. 1979. Instructional package. Available from F. Schimpfhauser, Ph.D., Assistant Dean, Office of Medical Education, 140 Farber Hall, (716) 831-2811; or P.J. Kostyniak, Ph.D., and J.R. Olson, Ph.D., Pharmacology and Therapeutics, 127 Farber Hall, (716) 831-2125; State University of New York at Buffalo, Buffalo, NY 14214.

> Provides first and third year medical students with an understanding and appreciation of the role of prevention in medical practice. In addition, third year medical students are provided with an in-depth clinical experience in the actual application of those methods and techniques of primary, secondary, and tertiary prevention that are practiced ideally in the medical, industrial, and legal communities. Emphasis is placed on each professional's individual role in health maintenance as it relates to cancer and disease prevention and on his/her responsibility for working toward the reduction of risk factors that contribute to the occurrence and distribution of disease. It is intended to draw upon a number of disciplines as they relate to cancer prevention and to provide a format that includes alternatives to the traditional lecture format.

Environmental Carcinogens. See LITERATURE SEARCHES--National Technical Information Service.

Estimates of the Fraction of Cancer in the United States Related to Occupational Factors. NCI, NIEHS, and NIOSH. September 15, 1978. 38 pp. and appendixes. Request free single copy from NIOSH.

> Discusses previous attempts to estimate the importance of occupational carcinogenesis and the problems encountered. Compares reported risks of exposure to asbestos, arsenic, benzene, chromium, nickel, and petroleum fractionates. Discusses chemicals and industrial processes associated with cancer in man. Provides summary and conclusions. Bibliography.

Focus on Cancer: Prevention and Early Detection. NCI Contract. 1979. Instructional package. Available from J.Q. Benoliel, M.D., Professor, Department of Community Health Care Systems, SM-24, University of Washington, Seattle, WA 98195.

> Contains learning objectives, content outlines, teaching/learning activities, reference materials, and evaluation instruments. It is a self-contained educational package adaptable to a wide range of teaching and learning settings. The course features current cancer research findings, comprehensive prevention and early detection information, and patient and community education strategies. The course was developed by a multidisciplinary committee of health care providers, oncologists, and educators and is intended for nurse practitioners, physician assistants, and other health care providers.

Histological Typing of Endocrine Tumors. E.D. Williams, R.E. Siebenman, and L.H. Sobin. WHO. 1980. 146 slides. Contact Chief, Library Service at local VA Medical Center.

> Contains histological classifications of endocrine tumors for physicians and pathologists to promote the adoption of uniform terminology.

Histological Typing of Intestinal Tumors. B.C. Morson and L.H. Sobin. WHO. 1976. 133 slides and booklet. Contact Chief, Library Service, at local VA medical center.

> Contains histological classifications of intestinal tumors for physicians and pathologists to promote the adoption of uniform terminology.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volumes 1-16. See CHEMICAL HAZARDS--Overviews.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volumes 17-31. See CHEMICAL HAZARDS--Overviews.

Supplement 1. Chemicals and Industrial Processes Associated with Cancer in Humans.

Supplement 4. Chemicals, Industrial Processes, and Industries Associated with Cancer in Humans.

Implications of Cost-Effectiveness Analysis of Medical Technology, The. Background Paper #2. Case Studies of Medical Technologies. See HEALTH SERVICES.

Case Study #3. Screening for Colon Cancer: A Technology Assessment.

Case Study #7. Allocating Costs and Benefits in Disease Prevention Programs: An Application to Cervical Cancer Screening.

Case Study #17. Surgery for Breast Cancer.

Information for Physicians: Irradiation-Related Thyroid Cancer. NCI. 1977. 27 pp. DHEW Publ. No. 77-1120. Request free single copy from NCI.

Contains guidelines for physicians for detection, diagnosis, treatment, and followup of irradiation-related thyroid cancer.

Journal of the National Cancer Institute. NCI. Published monthly. DHHS Publ. No. NIH 79-13. Subscription available from GPO.

Contains manuscripts reporting original observations in laboratory and clinical research that have not been published previously and are submitted exclusively to the Journal.

Lung Cancer. See LITERATURE SEARCHES--National Technical Information Service.

National Cancer Institute Publications List for Health Professionals. Office of Cancer Communications, NCI. Current listings. 6 pp. Request free single copy from NCI.

Provides a current list and description of NCI publications for physicians, dentists, medical program planners, and health communicators. Contact Office of Cancer Communications for publication and referral information.

NCI Patient Materials Catalog. Office of Cancer Communications, NCI. October 1980. 12 pp. Request free single copy from NCI.

Contains materials dealing with various aspects of cancer for adult patients and their families, young patients and their parents, and health professionals.

Oncology Overviews. International Cancer Research Data Bank Program, NCI. 15-18 published yearly. Request additional information from the ICRDB Program, NCI.

Contains selected abstracts from the published literature on high-interest cancer research topics. More than 50 topics are now available, with new topics added every year.

Precursors to Malignant Melanoma--Dysplastic or Congenital Nevi. See LITERATURE SEARCHES--National Library of Medicine.

Preventive Medicine: Cancer and Cardiovascular Diseases. See LITERATURE SEARCHES--National Technical Information Service.

Proceedings of the Second NCI/EPA/NIOSH Collaborative Workshop: Progress on Joint Environmental and Occupational Cancer Studies. September 9-11, 1981. NCI/EPA/NIOSH Collaborative Program on Environmental and Occupational Cancer. 799 pp. Request free single copy from the Office of the Scientific Coordinator for Environmental Cancer, Division of Cancer Etiology, NCI, Landow Building, Room 1D34, Bethesda, MD 20205.

Presents the proceedings and recommendations from the workshop. Areas of emphasis were information and data resources, experimental and mechanistic studies, methods development and approaches, and epidemiologic studies.

Psychologic Aspects of Cancer. See LITERATURE SEARCHES--National Library of Medicine.

Radiological Methods and Instrumentation for the Diagnosis and Treatment of Carcinomas. See LITERATURE SEARCHES--National Technical Information Service. Research Report 1981-1982. Medical and Health Sciences Division. Oak Ridge Associated Universities. October 1982. 32 pp. NTIS No. RNC/NS/TM-257. Available from NTIS.

Summarizes research results and related activities for the period October 1, 1981, to September 30, 1982. The Medical and Health Sciences Division conducts research on biomedical problems associated with diseases of the respiratory tract, vascular system, and gastrointestinal tract. Emphasis is placed on cancers related to occupational exposures, chemical toxicants, and ionizing radiation involved in energy production.

Respiratory Carcinogenicity of Diesel Fuel Emissions. See RESPIRATORY SYSTEM.

Retrospective Survey of Cancer in Relation to Occupation. NIOSH. 1977. 224 pp. DHEW (NIOSH) Publ. No. 77-178. NTIS No. PB-273797. Available from NTIS.

Contains relative risk estimates for different cancers within a variety of occupational groups. Where the number of cases was too small to establish a definite causal relationship, classic case-control methods were used to estimate associations between cancer and various occupational groups.

Risk Assessment in the Federal Government. See CHEMICAL HAZARDS--OVERVIEWS.

Safe Use of Low Energy X-Rays in the Treatment of Skin Cancer. See RADIATION.

Screening and Detection of Colorectal Cancer. See SCREENING.

Survey of Organic Air Pollutants That Have Been Tested for Carcinogenicity and Mutagenicity, A. See AIR POLLUTION.

Survival for Cancers of the Respiratory System. See RESPIRATORY SYSTEM.

Survival for Melanoma of the Skin and Cancers of the Eye, Brain, and Cranial Meninges, Thyroid, Bone, and Connective Tissue. D.L. Levin, A. Baranovsky, M.M. Myers, and L.M. Axtell, NCI. 42 pp. NIH Publ. No. 82-1545. Request free single copy from NCI.

Contains two reprints from Cancer Patient Survival, Report No. 5 (DHEW Publ. No. (NIH) 77-992). The first reprint lists the source of the data, describes the nature and organization of the data, and provides summary observations. The second reprint is the section of the report for Cancers of Other Specified Sites, which includes tabular and graphic data on melanoma of the skin, and cancers of the eye, brain, and cranial meninges, thyroid gland, bone, and connective tissue.

Topics in Cancer Prevention: A Multidisciplinary, Modular Curriculum. NCI Contract. 1979. Instructional package. Available from B.F. Trump, M.D., Professor and Chairman, Department of Pathology, Director, Maryland Cancer Program, University of Maryland School of Medicine, 10 South Pine Street, Baltimore, MD 21201.

Covers the following topics in cancer prevention: 1) risk factors related to carcinogen exposure and host predisposing risk factors; 2) prevention planning for those at risk involving avoidance of exposure and/or periodic screening if appropriate; 3) the function of related governmental and non-governmental agencies; 4) vehicles of information on carcinogenesis, carcinogenic agents, cancer risk factors, and cancer prevention; and 5) the status of cancer frequency, carcinogen exposures, and governmental programs relating to the student's own metropolitan area. Intended for medical students, physicians, and other health professionals.

Topics in Radiation Therapy. See RADIATION.

UCLA Student-Directed Course in Cancer Prevention, The. NCI Contract. 1979. Instructional package. Available from J.B. Block, M.D., UCLA School of Medicine, Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509.

> Developed out of the expressed needs of medical students at UCLA with input from a similar group at the University of California in San Francisco. Focuses on aspects of cancer prevention that are viewed as appropriate to the clinical interests and levels of educational experience of medical students. Faculty input reflected the need to extend existing strengths of the medical school and focused the course content. Intended for first- and second-year medical students.

Update of Publications. Medical and Health Sciences Division Research Report. See RADIATION.

Wayne State University Curriculum Series on Disease Prevention Focusing on Cancer, The. NCI Contract. 1979. Instructional package. Available from R.E. Gallagher, Ph.D., Professor and Director, Division of Educational Services and Research, Wayne State University School of Medicine, Gordon H. Scott Hall of Basic Medical Sciences, 540 East Canfield Avenue, Detroit, MI 48201. (318) 577-1378.

> Emphasizes cancer as an example of a pervasive disease that requires a longitudinal and systematic approach. Frequent references are made to other major disease areas to aid in the generalization of the strategies described.

CARDIOVASCULAR SYSTEM

Acquired Heart Disease. Radiological Society of North America. 1976. 147 slides and two 60-minute sound cassettes. Contact Chief, Library Service, at local VA medical center.

> Gives physicians and medical students facts and fallacies of plain radiographic findings in heart disease. Particular emphasis is given to the lung as a mirror of cardiac status. Basic principles of cardiac chamber analysis are reviewed. Common and uncommon acquired cardiac lesions along with their criteria for diagnosis are discussed; however, major emphasis is placed on plain radiographic diagnosis.

Aging Heart, The. See LITERATURE SEARCHES--National Library of Medicine.

Anatomy of the Heart. M.E. Silverman. Tampa Tracings. 1975. 50 slides, 120-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

> Gives medical students an overview of the parts and function of the heart, focusing on the pericardium, external anatomy, left and right atrium, left and right ventricle, the fibrous skeleton, the coronary arteries, and the conduction system.

Approaches to Sudden Death. American Heart Association. 1977. 14 slides, 40-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

> Discusses the treatment and diagnosis of coronary heart disease and sudden death.

Arteriosclerosis 1981: Report of the Working Group. NHLBI. 1981. Request free single copy from NHLBI.

Volume 1. 62 pp. NIH Publ. No. 81-2034.

> Summarizes the conclusions and recommendations of the Working Group on arteriosclerosis. Assesses present understanding, highlights unresolved problems, and emphasizes opportunities for research with particular attention to preventive measures, therapies, and technologies ready for clinical trials or applications. Bibliography.

Volume 2. 561 pp. NIH Publ. No. 82-2035.

> Presents information on fundamental and patient-oriented research, the decline in coronary heart disease mortality, prevention, behavioral research, health research personnel, and the magnitude of the problem of arteriosclerotic diseases. Bibliography.

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Aspirin Myocardial Infarction Study (AMIS). NHLBI. 1980. 56 pp. NIH Publ. 80-2106. Request free single copy from NHLBI.

Describes the design, methods, and baseline results of a cooperative clinical trial conducted at 30 clinical centers in the United States. Bibliography.

Atria, The. R.H. Anderson and A.E. Becker. Gower Medical Publications. 1980. 36 slides and text. Contact Chief, Library Service, at local VA medical center.

Illustrates for physicians the morphology of the right and left atria and the interatrial septum using schematics and photographs.

Auscultation and the Normal Heart. Medi-Cine. 1976. 24 slides and 11-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

Demonstrates for physicians areas of auscultation, normal hemodynamics, rotation, systolic murmurs, and diastolic murmurs associated with the normal heart.

Basic Concepts in Cardiac Physiology and Anatomy. G.W. Hamilton. Society of Nuclear Medicine. 1978. 69 slides and 2 sound cassettes. Contact Chief, Library Service, at local VA medical center.

Illustrates for physicians and cardiologists the four basic states of the myocardium and the blood flow characteristics for each at rest and during exercise.

Cardiomyopathies. W.P. Harvey. American College of Cardiology. N.D. 40-minute cassette. Contact Chief, Library Service, at local VA medical center.

Discusses the clinical spectrum, physical findings, and pathology of idopathic cardiomyopathies and those occurring with systemic disease.

Cardiopulmonary Resuscitation (CPR). See LITERATURE SEARCHES--National Library of Medicine.

Cardiovascular Anatomy. M. Viamonte, Jr. Meded. 1979. 80 slides and two 40-minute sound cassettes. Contact Chief, Library Service, at local VA medical center.

Correlates cardiovascular anatomy of intrathoracic structures with the chest's roentgenographic image. Structure, location, and examples of some abnormalities are depicted in frontal, lateral, and oblique projections.

Cardiovascular Disease: Cardiac Drugs. S. Alexander and M. Klein. American Society for Continuing Education. 1977. 120-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

Defines for physicians and medical students the principal types of anti-arrhythmic agents and cardiac glycosides and their uses in the treatment of cardiovascular disease.

Cardiovascular Diseases. See LITERATURE SEARCHES--National Technical Information Service.

Cardiovascular Emergencies--Shock. J.H. Stang, D.A. Rund, and J.V. Warren. Medcom, Inc. 1980. 58 slides, 54-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

Discusses the different classifications of shock: hypovolemic, cardiogenic, and septic shock. Shows metabolic and hemodynamic assessment and specific therapy.

Cardiovascular Examination, The. J.M. Felner. School of Medicine, Emory University, 1978. 20-minute cassette. Contact Chief, Library Service, at local VA medical center.

Demonstrates a comprehensive cardiovascular examination intended for physicians and cardiologists that includes an evaluation of the carotid arteries, jugular veins, heart, and peripheral pulses.

Cardiovascular Nuclear Medicine. S.M. Spies. Society of Nuclear Medicine. 1978. 57 slides, 30-minute sound cassette, and guide. Contact Chief, Library Service, at local VA medical center.

Contains a basic review for physicians and nuclear medicine technologists on the state of the art in cardiovascular nuclear medicine.

Cardiovascular Primer for the Workplace. Office of Prevention, Education, and Control, NHLBI. January 1981. 88 pp. NIH Publ. No. 81-2210. Request free single copy from NHLBI.

Discusses cardiovascular disease with emphasis placed on risk factor control and industrial implementations. Contains a listing of clearinghouses and health and disease intervention programs for the workplace.

Cardiovascular Profile of 15,000 Children of School Age in Three Communities 1971-1975. NHLBI. 1978. 797 pp. DHEW Publ. No. (NIH) 78-1472. Request free single copy from NHLBI.

> Contains data from three NHLBI Specialized Centers of Research that studied cardiovascular activity of children in Bogalusa, Louisiana; Rochester, Minnesota; and Muscatine, Iowa; from 1971 to 1975.

Cholesterol, Diet, and Heart Disease. See DIET AND NUTRITION.

Circulatory Assistance and the Artificial Heart: USA-USSR Symposium. NHLBI. 1980. 244 pp. NIH Publ. No. 80-2032. Request free single copy from NHLBI.

> Presents papers from a joint symposium of the United States and Union of Soviet Socialist Republics held in 1979. Describes collaboration on artificial heart and circulatory assistance research, including circulatory devices, biomaterials, left ventricular assists, and other cardiac assist devices. Bibliography.

Clinical Echocardiography. H. Feigenbaum. 1979. 58 slides, 60-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

> Teaches physicians and medical students principles of echocardiography; assessment of cardiac chambers, and pericardial effusion; and diagnosis of mitral and aortic stenosis, intracardiac tumors, and congenital heart disease.

Congestive Heart Failure. Current Trends in Therapy. C.V. Leier and D.V. Unverfert. Ohio State University. 1982. 27 slides, 30-minute sound cassette, and handout. Contact Chief, Library Service, at local VA medical center.

> Reviews the pathology of congestive heart failure. Discusses the use of inotropic and vasodilator drugs.

Coronary-Prone Behavior and Coronary Heart Disease: A Bibliography. NHLBI. 1980. 50 pp. NIH Publ. No. 80-2018. Request free single copy from NHLBI.

> Catalogs literature in the following areas: the association of behavior and coronary heart disease, the assessmment of coronary-prone behavior, the physiologic mechanisms underlying this presumed relationship, developmental and cultural patterns associated with the behavior pattern, and intervention strategies.

Cost of Worksite Hypertension Treatment. See DISEASE PREVENTION AND HEALTH PROMOTION.

Detection of Acute Myocardial Infarction, The. B.L. Holman. Society of Nuclear Medicine. 1978. 74 slides, 60-minute sound track, and booklet. Contact Chief, Library Service, at local VA medical center.

> Examines for physicians and medical students the types of radiopharmaceuticals taken up by an acutely damaged myocardium. Major topics include agents of choice, the factors influencing localization of radiopharmaceuticals, techniques of imaging scintigraphic patterns, diagnostic accuracy, predicting future prognosis, and stress factors.

Diet and Your Heart. See DIET AND NUTRITION.

Dietary Fat and Heart Disease. See DIET AND NUTRITION.

Diseases of the Heart. Spenco Medical Corporation. 1977. 25-minute cassette, manual, and wall chart. Contact Chief, Library Service, at local VA medical center.

> Shows examples of preventable and treatable heart diseases with emphasis on associations between lifestyles beginning early in life and heart diseases occurring in middle age.

Electrocardiography: Applied Theory. M.F. Arnsdorf. American Physiological Society. 1978. Contact Chief, Library Service, at local VA medical center.

Part 1. 79 slides and two 70-minute sound cassettes.

> Describes for physicians and cardiologists the normal cardiac activation sequence and uses the single equivalent-vector concept and standard lead systems of the frontal and horizontal planes to interpret cardiac electric levels.

Part 2. 80 slides and two 70-minute sound cassettes.

> Discusses for physicians and cardiologists ways in which normal cardiac electrical activity is altered and the interpretation of the resultant changes in the electrocardiogram.

Energy Transport, Protein Synthesis, and Hormone Control of Heart Metabolism: Fourth USA-USSR Joint Symposium on Myocardial Metabolism. NHLBI. 1980. 436 pp. NIH Publ. No. 80-2017. Request free single copy from NHLBI.

> Presents papers from a joint symposium, sponsored by the United States and Union of Soviet Socialist Republics, on myocardial metabolism. Contains ideas and significant research findings made in the area of myocardial metabolism under this exchange program. Bibliography.

Exercise Therapy and Physical Fitness in the Rehabilitation of Patients with Cardiovascular Disease. See LITERATURE SEARCHES--National Library of Medicine.

Failing Heart: The Role of the Inotropic Agents in Its Management, The. J. Nobel. Eli Lilly and Co. 1980. 25-minute cassette. Contact Chief, Library Service, at local VA medical center.

> Describes for medical students the physiology of heart failure and pharmacologic agents available for the treatment of heart disease.

Geochemistry of Water in Relation to Cardiovascular Disease. Panel on the Geochemistry of Water in Relation to Cardiovascular Disease. National Academy of Sciences. 1979. 98 pp. Available from National Academy Press.

> Reviews and documents the relationship between trace and major elements and chemicals in drinking water and cardiovascular disease (CVD). Several aspects of the problem related to drinking water before and after human consumption are reviewed. These topics range from the effects of the distribution system on water chemistry to the role of the constituents of drinking water in CVD.

Health and Behavior: Frontiers of Research in the Biobehavioral Science. Institute of Medicine, National Academy of Science. 1982. 359 pp. Available from National Academy Press.

> Examines the ways in which behavior can affect human health, focusing on the potential contributions of the biobehavioral sciences in enhancing the health status of Americans. Discusses scientific opportunities and knowledge of health--behavior links for the following major disorders and conditions: stress, coping, and health; alcoholism, alcohol abuse, and health; cardiovascular disease and behavior; diabetes and behavior; and major mental disorders and behaviors.

Heart Art. Pritchett and Hull Associates. 1981. 120 slides. Contact Chief, Library Service, at local VA medical center.

> Provides physicians and medical students with detailed drawings of the heart that are adaptable to many teaching situations. Topics illustrated include the effects of smoking, nutrition, exercise, and sex on the heart.

Heart to Heart. A Manual on Nutrition Counseling for the Reduction of Cardiovascular Risk Factors. C. Raab and J.L. Tillotson. NHLBI. 1983. 121 pp. NIH Publ. No. 83-1528. Request free single copy from NHLBI.

> Presents information for nutritionists, dieticians, and other health professionals who are involved in nutrition counseling of patients who have or are at risk of cardiovascular disease. Much of the information was developed through nutrition counseling workshops held between 1978 and 1981.

Hypertension in the Child or Adolescent. See LITERATURE SEARCHES--National Library of Medicine.

Hypertension in the Elderly. See LITERATURE SEARCHES--National Library of Medicine.

Hypertension in the USA and USSR: Second USA-USSR Joint Symposium. NHLBI. 1980. 198 pp. NIH Publ. No. 80-2016. Request free single copy from NHLBI.

> Contains papers presented at a joint symposium, sponsored by the United States and Union of Soviet Socialist Republics, on hypertension. Results of studies on fundamental clinical and epidemiologic aspects of hypertension are discussed. Bibliography.

Hypertension--Role of Body Weight, Sodium, Food Habits, and Weight Reduction. See LITERATURE SEARCHES--National Library of Medicine.

Impact of the Environment on Cardiovascular Disease. Report of the American Heart Association. Task Force on Environment and the Cardiovascular System. NHLBI. Reprint from Circulation. January 1981. Volume 63. Number 1. pp. 243A-271A.

> Reviews data regarding features of the environment that can potentially influence development of cardiovascular disease. Contains sections on water hardness and cardiovascular disease; cardiorespiratory effects of occupational inhalant exposures, effects of carbon monoxide on the cardiorespiratory system; exposure to trace elements and cardiovascular disease; noise, radiofrequency radiation, and the cardiovascular system; and physical and psychosocial stress and the cardiovascular system. Bibliography.

Implications of Cost-Effectiveness Analysis of Medical Technology, The. Background Paper #2. Case Studies of Medical Technologies. Case Study #9. The Artificial Heart: Cost, Risks, and Benefits. See HEALTH SERVICES.

Mortality from Cardiovascular and Noncardiovascular Diseases for U.S. Cities. NHLBI. 1979. 582 pp. DHEW Publ. No. (NIH) 79-1453. Request free single copy from NHLBI.

> Presents mortality and demographic information on 480 cities in the United States. Bibliography.

Needs and Opportunities for Rehabilitating the Coronary Heart Disease Patient. NHLBI. 1975, reprinted 1979. 93 pp. NIH Publ. No. 79-750. Request free single copy from NHLBI.

> Reports the recommendations of the NHLBI Task Force on Cardiovascular Rehabilitation. Bibliography.

NHLBI Publication Listing. NHLBI. March 1983. 24 pp. Request free single copy from NHLBI.

Contains an alphabetical listing and bibliography of NHLBI publications. Professional publications and general information publications are listed separately. Also contains publications from National High Blood Pressure Education Program. Order information included.

Normal Heart. American College of Cardiology. 1978. 48 slides and guide. Contact Chief, Library Service, at local VA medical center.

Presents an introduction for medical students to various forms of cardiac pathology. The normal morphology, radiology, echocardiography, and electrocardiography of the heart are detailed.

Nutritional Components in the Care of the Patient with Congestive Heart Failure. See DIET AND NUTRITION.

Physical Assessment: Heart and Lungs. Concept Media. 176. Four 96-minute videocassettes. Contact Chief, Library Service, at local VA medical center.

Contains information for the physician and the medical student on physical examination techniques for assessing the lungs and thorax. Introduces the concepts of inspection, palpatation, percussion, and auscultation.

Preventive Medicine: Cancer and Cardiovascular Diseases. See LITERATURE SEARCHES--National Technical Information Service.

Printed Aids for High Blood Pressure Education: A Guide to Evaluated Publications. NHLBI. February 1981. 108 pp. NIH Publ. No. 81-1244. Request free single copy from NHLBI.

Designed to assist the health professional in selecting accurate and appropriate materials for hypertensive patients. Describes materials from a variety of sources categorized by overall quality and reading level.

Proceedings of the Conference on the Decline in Coronary Heart Disease Mortality. NHLBI. 1979. 443 pp. NIH Publ. No. 79-1610. Request free single copy from NHLBI.

Reports the proceedings of a conference held to consider whether the decline in coronary heart disease mortality is real, to discuss possible causes of coronary heart disease, and to recommend further studies to elucidate the causes.

Proceedings of the First Joint US-USSR Symposium on Hypertension. NHLBI. 1978. 436 pp. NIH Publ. No. 79-1272. GPO No. 017-043-00099-4. Request free single copy from NHLBI.

> Contains papers presented at the first symposium on hypertension, sponsored by the United States and the Union of Soviet Socialist Republics in June 1978. Bibliography.

Proceedings of the Third US-USSR Joint Symposium on Congenital Heart Disease, April 14-15, 1977. NHLBI. 1977. 661 pp. DHEW Publ. No. (NIH) 78-1456. GPO No. 017-043-00080-3. Request free single copy from NHLBI.

> Contains papers presented at a symposium on congenital heart disease jointly sponsored by the United States and the Union of Soviet Socialist Republics. Discusses research results and advances. Bibliography.

Proceedings of the Third US-USSR Joint Symposium on Myocardial Metabolism, May 9-11, 1977. NHLBI. 1977. 522 pp. DHEW Publ. No. (NIH) 78-1457. Request free single copy from NHLBI.

> Contains papers presented at a symposium on myocardial metabolism jointly sponsored by the United States and the Union of Soviet Socialist Republics. Bibliography.

Proceedings of the US-USSR Symposium on Management of Ischemic Heart Disease. NHLBI. 1976. 228 pp. DHEW Publ. No. (NIH) 78-1458. Request free single copy from NHLBI.

> Contains papers presented at a symposium on management of ischemic heart disease jointly sponsored by the United States and the Union of Soviet Socialist Republics. Bibliography.

Questions About Weight, Salt, and HBP. See DIET AND NUTRITION.

Report of the National Heart Lung and Blood Institute Working Group on Heart Disease Epidemiology. NHLBI. 1979. 69 pp. NIH Publ. No. 79-1667. Request free single copy from NHLBI.

> Describes major areas of epidemiologic research needed to deepen understanding of today's major cardiovascular diseases, their trends in the population, their precursors and causes, and the optimal approach to control the diseases further. Bibliography.

Safe Use of Defibrillators. See HAZARDS TO HOSPITAL WORKERS.

Stress Tests and Exercise Therapy in Heart Disease. Center for Continuing Medical Education, Ohio State University, School of Medicine. 1977. 26 slides. Contact Chief, Library Service, at local VA medical center.

Presents the objectives, types, methods, and principles of multistage exercise testing.

Sudden Cardiac Death: Second USA-USSR Joint Symposium. NHLBI. 1980. 323 pp. NIH Publ. No. 81-2101. Request free single copy from NHLBI.

Contains papers presented at a symposium on sudden cardiac death held in December 1979 and jointly sponsored by the United States and the Union of Soviet Socialist Republics. Major topics discussed were identification of the patient at risk, cardiac electrophysiology, pathologic anatomy, and neutral activity and antiarrhythmic drugs. Bibliography.

USA-Poland Symposium on Ischemic Heart Disease. NHLBI. 1982. 268 pp. NIH Publ. No. 82-1273. Request free single copy from NHLBI.

Contains papers presented at a symposium sponsored jointly by the United States and Poland on ischemic heart disease. Discusses the epidemiology of ischemic heart disease; the role of prostaglandins in ischemic heart disease; prostacyclin and atherosclerosis; surgical management; rehabilitation following acute myocardial infarction, including psychophysiologic indices; and noninvasive diagnostic techniques. Bibliography.

USA-USSR Collaboration in Cardiovascular Research. NHLBI. 1975, revised 1977. 28 pp. DHEW Publ. No. (NIH) 77-726. Request free single copy from NHLBI.

Describes the United States-Union of Soviet Socialist Republics Joint Program in Cardiovascular Disease Research, one of five major health areas included in the 5-year medical science and public health agreement between the two governments.

USA-USSR Exchange in Cardiovascular Areas, 1972-1977. NHLBI. 1977. 101 pp. DHEW Publ. No. (NIH) 78-1423. GPO No. 017-053-00069-8. Request free single copy form NHLBI.

Describes health exchange agreements that have created new possibilities for American and Soviet scientists to work together on important health problems and to jointly develop strategies for current and future research. Areas of research included are pathogenesis of arteriosclerosis, management of ischemic heart disease, sudden death, blood transfusion, and artificial heart research and development. Bibliography.

USA-USSR First Lipoprotein Symposium: Laboratory Research and Joint Population Studies. NHLBI. 1982. 407 pp. NIH Publ. No. 83-1966. Request free single copy from NHLBI.

Contains papers presented at the 1981 Lipoprotein Symposium, sponsored by the United States and Union of Soviet Socialist Republics. Represents the culmination of 9 years collaborative work in the study of the pathogenesis of arteriosclerosis. Bibliography.

USA-USSR First Joint Symposium on Sudden Death. NHLBI. 1977. 429 pp. DHEW Publ. No. (NIH) 78-1470. Request free single copy from NHLBI

Contains papers presented at the First Joint Symposium on Sudden Death, sponsored by the United States and Union of Soviet Socialist Republics. Discusses the epidemiology and clinical predecessors of sudden death, electrophysiology of sudden death, and higher nervous activity and ventricular ectopic activity. Bibliography.

USA-USSR Second Joint Symposium on Myocardial Metabolism. NHLBI. 1977. 361 pp. DHEW Publ. No. (NIH) 77-924. Request free single copy from NHLBI.

Reports the proceedings of a symposium jointly sponsored by the United States and Union of Soviet Socialist Republics in 1975 on myocardial metabolism. Bibliography.

Workshop on Cardiomyopathies. NHLBI. 1979. 32 pp. NIH Publ. No. 79-1608. Request free single copy from NHLBI.

Contains papers presented at a workshop sponsored by NHLBI on cardiomyopathies. Discusses and evaluates the state of the art and needs and opportunities for research in alcoholic, viral, and adriamycin-induced cardiomyopathies. Bibliography.

Workshop on Early Hospital Discharge of Patients with Uncomplicated Acute Myocardial Infarction. NHLBI. 1979. 33 pp. NIH Publ. No. 79-1658. Request free single copy form NHLBI.

Discusses and evaluates information available on early hospital discharge of patients after an uncomplicated acute myocardial infarction and makes recommendations for further research. Bibliography.

CHEMICAL CARCINOGENS

See also CANCER for carcinogenesis bioassay information and CHEMICAL HAZARDS.

Annual Report on Carcinogens. National Toxicology Program, NIEHS.

First Annual Report on Carcinogens. July 1980. Volume I, 150 pp.; Volume II, 247 pp. Request free single copy from NIEHS.

Second Annual Report on Carcinogens. December 1981. 268 pp. and appendixes. NTIS No. PB82-229808. Available from NTIS.

Third Annual Report on Carcinogens. December 1982. 327 pp. and appendixes. NTIS No. PB83-135855. Available from NTIS.

Contains information on known or suspected human carcinogens. Discusses the nature and degree of exposure, population exposed, and Federal regulations of the chemicals. Second and Third Annual Reports include two synonym indexes of chemicals.

Chemical Carcinogens. HRSA Contract. September 1980. 52 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philiadelphia, PA 19129. (215) 842-6540.

Provides information for clinicians concerning the history of chemical carcinogenesis research, concepts of cocarcinogenesis, and acceptable procedures of determining carcinogenic potential. The role of the primary care physician in the prevention of carcinogenesis by chemicals and the relationship to early detection is highlighted. Includes learning objectives and bibliography.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volumes 1-16. See CHEMICAL HAZARDS--Overviews.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volumes 17-31 and Supplements 1-4. See CHEMICAL HAZARDS--Overviews.

More Than a Paycheck. OSHA, U.S. DOL. 1978. 28-minute film. Available on loan from D.W. Ham, Ph.D., Communication Productions Chief, Room N3637, DOL (OSHA), 200 Constitution Avenue, NW., Washington, DC 20210.

Discusses workplace exposure to industrial carcinogens.

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CHEMICAL HAZARDS

Acetohexamide. See CANCER for carcinogenesis bioassay information.

Acetylene

Criteria for a Recommended Standard: Occupational Exposure to Acetylene. NIOSH. 1976. 96 pp. DHEW (NIOSH) Publ. No. 76-195. GPO No. 017-033-0175-8. NTIS No. PB-267068. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to acetylene. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to acetylene; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Acronycine. See CANCER for carcinogenesis bioassay information.

Acrylamide

Criteria for a Recommended Standard: Occupational Exposure to Acrylamide. NIOSH. 1977. 137 pp. DHEW (NIOSH) Publ. No. 77-112. GPO No. 017-033-00185-5. NTIS No. PB-273871. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to acrylamide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to acrylamide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Acrylonitrile

Criteria for a Recommended Standard: Occupational Exposure to Acrylonitrile. NIOSH. 1978. 14 pp. DHEW (NIOSH) Publ. No. 78-116. GPO No. 017-033-00277. NTIS No. PB-81-225617. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to acrylonitrile. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to acrylonitrile; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Actinomycin D. See CANCER for carcinogenesis bioassay information.

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Agar. See CANCER for carcinogenesis bioassay information.

Agaritine. See CANCER for carcinogenesis bioassay information.

Aldicarb. See CANCER for carcinogenesis bioassay information.

Aldrin. See CANCER for carcinogenesis bioassay information.

Special Occupational Hazard Review for Aldrin/Dieldrin. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Alkyl benzenes

Alkyl Benzenes. National Academy of Sciences. 1981. 384 pp. Available from National Academy Press.

Assesses the sources and uses of alkylated benzenes, their chemical and physical properties, and aspects of their chemistry that pertain to their uses in industry. Includes a review of techniques now used for sampling and measuring the levels of these compounds in the environment, estimates of the hazards associated with their occurrence, and evidence of their potential mutagenic and carcinogenic activity.

Allyl chloride

Criteria for a Recommended Standard: Occupational Exposure to Allyl Chloride. NIOSH. 1976. 99 pp. DHEW (NIOSH) Publ. No. 76-204. GPO No. 017033-00186-3. NTIS No. PB-267071. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to allyl chloride. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to allyl chloride; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

See CANCER for carcinogenesis bioassay information.

Allyl isothiocyanate. See CANCER for carcinogenesis bioassay information.

Allyl isovalerate. See CANCER for carcinogenesis bioassay information.

Amiben. See CANCER for carcinogenesis bioassay information.

2-Aminoanthraquinone. See CANCER for carcinogenesis bioassay information.

3-Amino-4-ethoxyacetanilide. See CANCER for carcinogenesis bioassay information.

3-Amino-9-ethylcarbazole, hydrochloride. See CANCER for carcinogenesis bioassay information.

1-Amino-2-methylanthraquinone. See CANCER for carcinogenesis bioassay information.

4-Amino-2-nitrophenol. See CANCER for carcinogenesis bioassay information.

2-Amino-5-nitrothiazole. See CANCER for carcinogenesis bioassay information.

11-Aminoundecanoic acid. See CANCER for carcinogenesis bioassay information.

Ammonia

Criteria for a Recommended Standard: Occupational Exposure to Ammonia. See AGRICULTURE.

Anilazine. See CANCER for carcinogenesis bioassay information.

Aniline hydrochloride. See CANCER for carcinogenesis bioassay information.

o-Anisidine hydrochloride. See CANCER for carcinogenesis bioassay information.

p-Anisidine hydrochloride. See CANCER for carcinogenesis bioassay information.

o-Anthranilic acid. See CANCER for carcinogenesis bioassay information.

Anthraquinone

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 27. Some Aromatic Amines, Anthraquinones, and Nitroso Compounds, and Inorganic Fluoride Used in Drinking-Water and Dental Preparations. See CHEMICAL HAZARDS--Overviews.

Antimony

Criteria for a Recommended Standard: Occupational Exposure to Antimony. NIOSH. 1978. 125 pp. DHEW (NIOSH) Publ. No. 78-216. GPO No. 017-033-00335-1. NTIS No. PB81-226060. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to antimony. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to antimony; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Aroclor 1254. See CANCER for carcinogenesis bioassay information.

Arsenic

Arsenic in Foods. See LITERATURE SEARCHES--National Technical Information Service.

Arsenic Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Criteria for a Recommended Standard: Occupational Exposure to Inorganic Arsenic. (Revised). NIOSH. 1975. 141 pp. HEW (NIOSH) Publ. No. 75-149. NTIS No. PB-246701. Available from NTIS.

Recommends a standard to protect workers from exposure to inorganic arsenic. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to inorganic arsenic; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Community Health Associated with Arsenic in Drinking Water in Millard County, Utah. J.W. Southwick et al. Health Effects Research Laboratory, EPA. 74 pp. NTIS No. PB82-108374. Available from NTIS.

Evaluates the human health effects of ingesting drinking water containing arsenic at levels about four times the EPA primary drinking water standard. Examination of 250 cases included dermatologic, neurologic, and hematologic endpoints. Presents data from hair and urine that were tested for arsenic content.

Medical and Biological Effects of Environmental Pollutants: Arsenic. National Academy of Sciences. 1977. 322 pp. Available from National Academy Press.

> Assesses health and ecologic hazards from arsenic contamination. Discusses the carcinogenicity of inorganic arsenic compounds. Bibliography.

Speciation of Arsenic Compounds in Water Supplies. K.J. Irgolic. Health Effects Research Laboratory, EPA. November 1982. 125 pp. NTIS No. PB82-257817. Available from NTIS.

> Presents analytical methods used to determine the chemical form (valence state or compound) of arsenic in drinking water. Discusses the use of such methods in those cases where adverse health effects have been attributed to arsenic.

Toxicity of Arsenic. See LITERATURE SEARCHES--National Technical Information Service.

Arsenic hydride

Current Intelligence Bulletin 32: Arsine (Arsenic Hydride) Poisoning in the Workplace. NIOSH. August 3, 1979. 10 pp. DHEW (NIOSH) Publ. No. 79-142. Request free single copy from NIOSH.

> Contains new information on occupational hazards of arsine exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

L-Ascorbic acid. See CANCER for carcinogenesis bioassay information.

Aspirin, phenacetin, and caffeine. See CANCER for carcinogenesis bioassay information.

5-Azacytidine. See CANCER for carcinogenesis bioassay information.

Azathioprine. See CANCER for carcinogenesis bioassay information.

Azinphosmethyl. See CANCER for carcinogenesis bioassay information.

Azobenzene. See CANCER for carcinogenesis bioassay information.

Benzene

Benzene Toxicity. See LITERATURE SEARCHES--National Technical Information Service.

Benzene Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Criteria for a Recommended Standard: Occupational Exposure to Benzene. (Revised). NIOSH. 1976. 137 pp. DHEW (NIOSH) Publ. No. 74-137. GPO No. 017-033-00038-7. NTIS No. PB-246700. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to benzene. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to benzene; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Selected NIOSH Benzene Publications. NIOSH. October 1982. 5 pp. Request free single copy from NIOSH.

Lists and annotates selected NIOSH publications on benzene that can be purchased from GPO and NTIS. Order information included.

Benzidine

Carcinogenicity and Metabolism of Azo Dyes, Especially Those Derived from Benzidine. See TEXTILE AND DYE MANUFACTURING.

Current Intelligence Bulletin 24: Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine Derived Dyes. See TEXTILE AND DYE MANUFACTURING.

Health Hazard Alert: Benzidine-, o-Tolidine-, and o-Dianisidine-Based Dyes. See TEXTILE AND DYE MANUFACTURING.

Special Occupational Hazard Review for Benzidine-Based Dyes. See TEXTILE AND DYE MANUFACTURING.

Benzoin. See CANCER for carcinogenesis bioassay information.

p-Benzoquinone dioxide. See CANCER for carcinogenesis bioassay information.

1,2,3-Benzotriazole. See CANCER for carcinogenesis bioassay information.

Benzoyl peroxide

Criteria for a Recommended Standard: Occupational Exposure to Benzoyl Peroxide. NIOSH. 1977. 128 pp. DHEW (NIOSH) Publ. No. 77-166. GPO No. 017-033-00221-5. NTIS No. PB-273819. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to benzoyl peroxide. Provides criteria for the recommended standard, including literature review of the biologic effects of exposure to benzoyl peroxide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Benzyl chloride

Criteria for a Recommended Standard: Occupational Exposure to Benzyl Chloride. NIOSH. 1978. 98 pp. DHEW (NIOSH) Publ. No. 78-182. NTIS No. PB81-226698. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to benzyl chloride. Provides criteria for the recommended standard, including literature review of the biologic effects of exposure to benzyl chloride; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Extent of Exposure Survey of Benzyl Chloride. J.M. Cohen, P. Diamond, and P.M. Giever. NIOSH. February 1978. 48 pp. DHEW (NIOSH) Publ. No. 78-160. Request free single copy from NIOSH.

Summarizes the results of industrial hygiene surveys of two benzyl chloride plants in the eastern United States. Describes the workplace, job type, and industrial practices involved in the production and use of benzyl chloride sampling results and presents conclusions. Bibliography.

Beryllium

Toxicity of Beryllium. See LITERATURE SEARCHES--National Technical Information Service.

2-Biphenylamine hydrochloride. See CANCER for carcinogenesis bioassay information.

1,3-Bis(chloroethyl)-1-nitrosourea. See CANCER for carcinogenesis bioassay information.

Bis(2-chloro-1-methylethyl) ether. See CANCER for carcinogenesis bioassay information.

4,4'-Bis(dimethylamino)benzophenone. See CANCER for carcinogenesis bioassay information.

(+)Bis-4,4'-(1-methyl-1,2-ethanediyl)-2,6-piperazinedione. See CANCER for carcinogenesis bioassay information.

Bisphenol A. See CANCER for carcinogenesis bioassay information.

Boron trifluoride

Criteria for a Recommended Standard: Occupational Exposure to Boron Trifluoride. NIOSH. 1977. 95 pp. DHEW (NIOSH) Publ. No. 77-122. NTIS No. PB-274747. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to boron trifluoride. Provides criteria for the recommended standard, including literature review of the biologic effects of exposure to boron trifluoride; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Butylated hydroxytoluene (BHT). See CANCER for carcinogenesis bioassay information.

Butyl benzyl phthalate. See CANCER for carcinogenesis bioassay information.

Cadmium

Cadmium and the Environment. See LITERATURE SEARCHES--National Library of Medicine.

Cadmium Exposure: Health Effects. See LITERATURE SEARCHES--National Technical Information Service.

Cadmium in Foods. See LITERATURE SEARCHES--National Technical Information Service.

Cadmium Pollution. See LITERATURE SEARCHES--National Technical Information Service.

Criteria for a Recommended Standard: Occupational Exposure to Cadmium. NIOSH. 1976. 97 pp. DHEW (NIOSH) Publ. No. 76-192. GPO No. 017-033-00206-1. NTIS No. PB-274237. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to cadmium. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to cadmium; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 11. Cadmium, Nickel, Some Epoxides, Miscellaneous Industrial Chemicals, and General Considerations on Volatile Anaesthetics. See CHEMICAL HAZARDS--Overviews.

Calcium cyanamide. See CANCER for carcinogenesis bioassay information.

Caprolactam. See CANCER for carcinogenesis bioassay information.

Captan. See CANCER for carcinogenesis bioassay information.

Carbon black

Criteria for a Recommended Standard: Occupational Exposure to Carbon Black. NIOSH. 1978. 107 pp. DHEW (NIOSH) Publ. No. 78-204. NTIS No. PB81-225625. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to carbon black. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to carbon black; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Carbon dioxide

Criteria for a Recommended Standard: Occupational Exposure to Carbon Dioxide. NIOSH. 1976. 181 pp. DHEW (NIOSH) Publ. No. 76-194. GPO No. 017-033-00199-5. NTIS No. PB-266597. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to carbon dioxide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to carbon dioxide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Carbon disulfide

Criteria for a Recommended Standard: Occupational Exposure to Carbon Disulfide. NIOSH. 1977. 198 pp. DHEW (NIOSH) Publ. No. 77-156. GPO No. 017-033-00216-9. NTIS No. PB-274199. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to carbon disulfide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to carbon disulfide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Carbon monoxide

Advance Data. Blood Carbon Monoxide Levels in Persons 3-74 Years of Age: United States, 1976-1980. NCHS. March 17, 1982. No. 76. 24 pp. DHHS Publ. No. (PHS) 82-1250. Request free single copy from NCHS.

Presents national estimates of the distribution of carbon monoxide levels in the blood of persons aged 3-74 years in the United States by age, smoking status, race, urbanization status of residence, annual family income, and season of the year. Examines the four principal sources of CO: smoking, ambient or outdoor exposures, occupational exposure, and indoor exposure. Bibliography.

Adverse Effect of Carbon Monoxide Exposure. See LITERATURE SEARCHES--National Technical Information Service.

Carbon Monoxide Commuter Exposure Data Base: A Five Day Study in Los Angeles. See AIR POLLUTION.

Carbon Monoxide Concentrations in Four U.S. Cities During the Winter of 1981. See AIR POLLUTION.

Effects of CO on Vigilance Performance. NIOSH. 1977. 68 pp. DHEW (NIOSH) Publ. No. 77-124. NTIS No. PB-274219. Available from NTIS.

Investigates certain behavioral and neurologic aspects of low-level exposure to carbon monoxide.

Medical and Biologic Effects of Environmental Pollutants: Carbon Monoxide. National Academy of Sciences. 1977. 239 pp. Available from National Academy Press.

Assesses health and ecologic hazards from carbon monoxide exposure. Bibliography.

Carbon tetrachloride

Carbon Tetrachloride: Metabolism and Toxicity. See LITERATURE SEARCHES--National Technical Information Service.

Criteria for a Recommended Standard: Occupational Exposure to Carbon Tetrachloride. NIOSH. 1976. 155 pp. DHEW (NIOSH) Publ. No. 76-133. NTIS No. PB-250424. Available from NTIS.

> Recommends a standard to protect workers from exposure to carbon tetrachloride. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to carbon tetrachloride; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Carbromal. See CANCER for carcinogenesis bioassay information.

Chlorambucil. See CANCER for carcinogenesis bioassay information.

Chlordane. See CANCER for carcinogenesis bioassay information.

Chlordecone (Kepone). See CANCER for carcinogenesis bioassay information.

Kepone (Chlordecone) Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Chlorine

Criteria for a Recommended Standard: Occupational Exposure to Chlorine. NIOSH. 1976. 167 pp. DHEW (NIOSH) Publ. No. 76-170. NTIS No. PB-266367. Request single free copy from NIOSH.

> Recommends a standard to protect workers from exposure to chlorine. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to chlorine; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Disinfectants: Chlorine and Chlorine Dioxide. See LITERATURE SEARCHES--National Technical Information Service.

Medical and Biologic Effects of Environmental Pollutants: Chlorine and Hydrogen Chloride. National Academy of Sciences. 1976. 282 pp. Available from National Academy Press.

Assesses health and ecologic hazards from chlorine and hydrogen chloride exposure. Bibliography.

Chlorine dioxide

Disinfectants: Chlorine and Chlorine Dioxide. See LITERATURE SEARCHES--National Technical Information Service.

4'-(Chloroacetyl)-acetanilide. See CANCER for carcinogenesis bioassay information.

p-Chloroaniline. See CANCER for carcinogenesis bioassay information.

Chlorobenzilate. See CANCER for carcinogenesis bioassay information.

Chloroethanes

Current Intelligence Bulletin 27: Chloroethanes: Review of Toxicity. NIOSH. August 21, 1978. 22 pp. DHEW (NIOSH) Publ. No. 78-181. Request free single copy from NIOSH.

Contains new information on occupational hazards of chloroethane exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

(2-Chloroethyl)trimethylammonium chloride. See CANCER for carcinogenesis bioassay information.

Chloroform

Criteria for a Recommended Standard: Occupational Exposure to Chloroform. NIOSH. 1975. 130 pp. DHEW (NIOSH) Publ. No. 75-114. NTIS No. PB-246695. Available from NTIS.

Recommends a standard to protect workers from exposure to chloroform. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to chloroform; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Chloroform. See CANCER for carcinogenesis bioassay information.

2-(Chloromethyl)pyridine hydrochloride. See CANCER for carcinogenesis bioassay information.

3-(Chloromethyl)pyridine hydrochloride. See CANCER for carcinogenesis bioassay information.

4-Chloro-m-phenylenediamine. See CANCER for carcinogenesis bioassay information.

4-Chloro-o-phenylenediamine. See CANCER for carcinogenesis bioassay information.

2-Chloro-p-phenylenediamine sulfate. See CANCER for carcinogenesis bioassay information.

Chloropicrin. See CANCER for carcinogenesis bioassay information.

Chloroprene

Criteria for a Recommended Standard: Occupational Exposure to Chloroprene. NIOSH. 1977. 184 pp. DHEW (NIOSH) Publ. No. 77-210. GPO No. 017-33-00239-8. NTIS No. PB-274777. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to chloroprene. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to chloroprene; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Chlorothalonil. See CANCER for carcinogenesis bioassay information.

3-Chloro-p-toluidine. See CANCER for carcinogenesis bioassay information.

5-Chloro-o-toluidine. See CANCER for carcinogenesis bioassay information.

4-Chloro-o-toluidine hydrochloride. See CANCER for carcinogenesis bioassay information.

Chlorpropamide. See CANCER for carcinogenesis bioassay information.

Chromium

Chromium Toxicity. See LITERATURE SEARCHES--National Technical Information Service.

Chromium Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Criteria for a Recommended Standard: Occupational Exposure to Chromium VI. NIOSH. 1976. 200 pp. DHEW (NIOSH) Publ. No. 76-129. NTIS No. PB-248595. Available from NTIS.

Recommends a standard to protect workers from exposure to chromium VI. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to chromium VI; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

C.I. Acid Red 14. See CANCER for carcinogenesis bioassay information.

C.I. Direct Black 38. See CANCER for carcinogenesis bioassay information.

C.I. Direct Blue 6. See CANCER for carcinogenesis bioassay information.

C.I. Direct Brown 95. See CANCER for carcinogenesis bioassay information.

C.I. Disperse Yellow 3. See CANCER for carcinogenesis bioassay information.

C.I. Vat Yellow 4. See CANCER for carcinogenesis bioassay information.

C.I. Solvent Yellow 14. See CANCER for carcinogenesis bioassay information.

Cinnamyl anthranilate. See CANCER for carcinogenesis bioassay information.

Clonitralid. See CANCER for carcinogenesis bioassay information.

Cobalt

Toxicity of Cobalt. See LITERATURE SEARCHES--National Technical Information Service.

Copper

Environmental Conditions in U.S. Copper Smelters. NIOSH Survey. W.L. Wagner. NIOSH. April 1975. 35 pp. HEW Publ. No. (NIOSH) 75-158. Request free single copy from NIOSH.

> Presents an overview of environmental conditions in copper smelters operating in the United States through 1973. The data, combined into industry-wide averages, were collected from six extensive and detailed surveys and eight superficial surveys. Data are presented in a mannner intended to be indicative of concentrations that might be found over several years throughout the industry, not necessarily reflecting the concentrations that might be determined in a specific smelter at a given time. Includes airborne concentrations for arsenic, lead, zinc, copper, cadmium, molybdenum, and sulfur dioxide.

Medical and Biologic Effects of Environmental Pollutants: Copper. National Academy of Sciences. 1977. 115 pp. Available from National Academy Press.

> Assesses health and ecologic hazards of copper contamination. Origins and measurement of copper are discussed. Bibliography.

Copper Production: Processes and Attendant Hazards. HRSA Contract. May 1981. Instructional package. 30 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information for clinicians concerning exposure of copper workers to contaminants from copper smelters. Describes and draws implications from the results of six epidemiologic studies concerning exposure to copper. Bibliography.

Coumaphos. See CANCER for carcinogenesis bioassay information.

m-Cresidine. See CANCER for carcinogenesis bioassay information.

p-Cresidine. See CANCER for carcinogenesis bioassay information.

Cresol

Criteria for a Recommended Standard: Occupational Exposure to Cresol. NIOSH. 1978. 127 pp. DHEW (NIOSH) Publ. No. 78-133. GPO No. 017-033-00284-3. Available from GPO.

> Recommends a standard to protect workers from exposure to cresol. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to cresol; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Cupferron. See CANCER for carcinogenesis bioassay information.

Cyanide

Development and Evaluation of Procedures for the Analysis of Simple Cyanides, Total Cyanide, and Thiocyanate in Water and Wastewater. D. Ingersoll, W.R. Harris, D.C. Bomberger, and D.M. Coulson. December 1983. NTIS No. PB84-112663. Available from NTIS.

> Describes research to develop and evaluate analytic test procedures for the analysis of simple cyanides, total cyanides, and thiocyanates. The modified Roberts-Jackson method was found to be the best of seven methods for the analysis of simple cyanides. Two new methods for analysis of total cyanide were developed, evaluated, and compared to the EPA procedure. None of the methods for analysis of thiocyanate could accurately quantitate thiocyanate below 30 ppb.

Cyclophosphamide. See CANCER for carcinogenesis bioassay information.

Cytarabine. See CANCER for carcinogenesis bioassay information.

Cytembena. See CANCER for carcinogenesis bioassay information.

Cytoxyl alcohol. See CANCER for carcinogenesis bioassay information.

Dacarbazine. See CANCER for carcinogenesis bioassay information.

Daunomycin. See CANCER for carcinogenesis bioassay information.

o,p'-DDD (o,p'-Dichlorodiphenyl dichloroethane). See CANCER for carcinogenesis bioassay information.

DDD

DDT, DDD, and DDE Pesticides. See LITERATURE SEARCHES--National Technical Information Service.

DDE

DDT, DDD, and DDE Pesticides. See LITERATURE SEARCHES--National Technical Information Service.

DDT

DDT, DDD, and DDE Pesticides. See LITERATURE SEARCHES--National Technical Information Service.

Special Occupational Hazard Review for DDT. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Diallyl phthalate. See CANCER for carcinogenesis bioassay information.

2,4-Diaminoanisole sulfate. See CANCER for carcinogenesis bioassay information.

2,4-Diaminotoluene. See CANCER for carcinogenesis bioassay information.

o-Dianisidine

Health Hazard Alert: Benzidine-, o-Tolidine-, and o-Dianisidine-Based Dyes. See TEXTILE AND DYE MANUFACTURING.

Diarylanilide yellow. See CANCER for carcinogenesis bioassay information.

Diazinon. See CANCER for carcinogenesis bioassay information.

Dibenzo-p-dioxin. See CANCER for carcinogenesis bioassay information.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 15. Some Fumigants, the Herbicides, 2,4-D and 2,4,5-T, Chlorinated Dibenzodioxins and Miscellaneous Industrial Chemicals. See CHEMICAL HAZARDS--Overviews.

Dibromochloropropane

Criteria for a Recommended Standard: Occupational Exposure to Dibromochloropropane (DBCP). NIOSH. 1978. 14 pp. DHEW (NIOSH) Publ. No. 78-115. GPO No. 017-033-00277-1. NTIS No. PB81-228728. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to dibromochloropropane. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to dibromochloropropane; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

1,2-Dibromo-3-chloropropane. See CANCER for carcinogenesis bioassay information.

Dibromodulcitol. See CANCER for carcinogenesis bioassay information.

1,2-Dibromoethane. See CHEMICAL HAZARDS--Ethylene dibromide.
See CANCER for carcinogenesis bioassay information.

Dibromomannitol. See CANCER for carcinogenesis bioassay information.

1,2-Dichloroethane

Permeation of Protective Garment Material by Liquid Halogenated Ethanes and A Polychlorinated Biphenyl. See ORGANIC SOLVENTS.

Revised Recommended Standard: Occupational Exposure to Ethylene Dichloride (1,2-Dichloroethane). NIOSH. September 1978. 38 pp. DHEW (NIOSH) Publ. No. 78-211. GPO No. 017-033-00342-4. NTIS No. PB80-176092. Request free single copy from NIOSH.

Presents revised recommendations to protect workers from exposure to ethylene dichloride. Discusses the basis for the revised ethylene dichloride standard, including environmental data on sampling and analysis, workplace exposure, control of hazards, and information on work practices. Bibliography.

Dibutyltin diacetate. See CANCER for carcinogenesis bioassay information.

2,7-Dichlorodibenzo-p-dioxin (DCDD). See CANCER for carcinogenesis bioassay information.

Dichlorodiphenylethylene. See CANCER for carcinogenesis bioassay information.

Dichlorodiphenyltrichloroethane. See CANCER for carcinogenesis bioassay information.

1,1-Dichloroethane. See CANCER for carcinogenesis bioassay information.

1,2-Dichloroethane. See CANCER for carcinogenesis bioassay information.

Dichloromethotrexate. See CANCER for carcinogenesis bioassay information.

2,6-Dichloro-p-phenylenediamine. See CANCER for carcinogenesis bioassay information.

Dichlorvos. See CANCER for carcinogenesis bioassay information.

Dicofol. See CANCER for carcinogenesis bioassay information.

N,N'-Dicyclohexylthiourea. See CANCER for carcinogenesis bioassay information.

Dieldrin. See CANCER for carcinogenesis bioassay information.

Special Occupational Hazard Review for Aldrin/Dieldrin. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Di(2-ethylhexyl)adipate. See CANCER for carcinogenesis bioassay information.

Di(2-ethylhexyl)phthalate. See CANCER for carcinogenesis bioassay information.

Di(p-ethylphenyl)dichloroethane. See CANCER for carcinogenesis bioassay information.

Diethylstilbestrol

Adverse Effects of Prenatal Exposure to Diethylstilbestrol (DES). See LITERATURE SEARCHES--National Library of Medicine.

Information for Physicians: Prenatal Diethylstilbestrol (DES) Exposure: Recommendations of the Diethylstilbestrol-Adenosis (DESAD) Project for the Identification and Management of Exposed Individuals. Division of Cancer Control and Rehabilitation, NCI. Reprinted March 1981. 31 pp. NIH Publ. No. 81-2049. Request free single copy from NCI.

Provides current information for the medical community on the health status of DES-exposed persons, methods available for their identification, and plans for continuing examination and management. Bibliography.

N,N'-Diethylthiourea. See CANCER for carcinogenesis bioassay information.

Diisocyanates

Criteria for a Recommended Standard: Occupational Exposure to Diisocyanates. NIOSH. 1978. 138 pp. DHEW (NIOSH) Publ. No. 78-215. NTIS No. PB81-226615. Available from NTIS.

Recommends a standard to protect workers from exposure to diisocyanates. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to diisocyanates; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Dimethoate. See CANCER for carcinogenesis bioassay information.

2,4-Dimethoxyaniline hydrochloride. See CANCER for carcinogenesis bioassay information.

3,3'-Dimethoxybenzidine-4,4'-diisocyanate. See CANCER for carcinogenesis bioassay information.

Dimethyl sulfoxide

Therapeutic Use of Dimethyl Sulfoxide. See LITERATURE SEARCHES--National Library of Medicine.

Dimethyl terephthalate. See CANCER for carcinogenesis bioassay information.

Dinitro-ortho-cresol

Criteria for a Recommended Standard: Occupational Exposure to Dinitro-Ortho-Cresol. NIOSH. 1978. 159 pp. DHEW (NIOSH) Publ. No. 78-131. GPO No. 017-033-00290-8. NTIS No. PB80-175870. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to dinitro-ortho-cresol. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to dinitro-ortho-cresol; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

2,4-Dinitrotoluene. See CANCER for carcinogenesis bioassay information.

Dioxane

Criteria for a Recommended Standard: Occupational Exposure to Dioxane. NIOSH. 1977. 203 pp. DHEW (NIOSH) Publ. No. 77-226. GPO No. 017-033-00254-1. NTIS No. PB-274810. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to dioxane. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to dioxane; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

1,4-Dioxane. See CANCER for carcinogenesis bioassay information.

Dioxathion. See CANCER for carcinogenesis bioassay information.

Dioxins

Agent Orange. See LITERATURE SEARCHES--National Library of Medicine.

Agent Orange: Vietnam's Deadly Fog. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

2,7-Dichlorodibenzo-p-dioxin (DCDD). See CANCER for carcinogenesis bioassay information.

Dioxin Toxicology (including Agent Orange). See LITERATURE SEARCHES--National Library of Medicine.

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin. See CANCER for carcinogenesis bioassay information.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 15. Some Fumigants, the Herbicides 2,4-D and 2,4,5-T Chlorinated Dibenzodioxins and Miscellaneous Industrial Chemicals. See CHEMICAL HAZARDS--Overviews.

Review of Literature on Herbicides, Including Phenoxy Herbicides and Associated Dioxins. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Direct Black 38

Current Intelligence Bulletin 24: Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine Derived Dyes. See TEXTILE AND DYE MANUFACTURING.

Direct Blue 6

Current Intelligence Bulletin 24: Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine Derived Dyes. See TEXTILE AND DYE MANUFACTURING.

Direct Brown 95

Current Intelligence Bulletin 24: Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine Derived Dyes. See TEXTILE AND DYE MANUFACTURING.

2,5-Dithiobiurea. See CANCER for carcinogenesis bioassay information.

Emetine. See CANCER for carcinogenesis bioassay information.

Endosulfan. See CANCER for carcinogenesis bioassay information.

Endrin. See CANCER for carcinogenesis bioassay information.

Epichlorohydrin

Criteria for a Recommended Standard: Occupational Exposure to Epichlorohydrin. NIOSH. 1976. 162 pp. DHEW (NIOSH) Publ. No. 76-206. GPO No. 017-033-00197-9. NTIS No. PB81-227019. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to epichlorohydrin. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to epichlorohydrin; environmental data on hazards; information on work practices; and research needs. Bibliography.

Current Intelligence Bulletin 30: Epichlorohydrin. NIOSH. October 12, 1978. 12 pp. DHEW (NIOSH) Publ. No. 79-105. Request free single copy from NIOSH.

> Contains new information on occupational hazards of epichlorohydrin exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

Epichlorohydrin Manufacture and Use Industrial Hygiene Survey. R.E. Bales. NIOSH. February 1978. 36 pp. and appendixes. DHEW (NIOSH) Publ. No. 78-151. Request free single copy from NIOSH.

> Consolidates the findings of studies conducted in five epichlorohydrin facilities. Includes air sampling data, summary tables of worker exposure levels to epichlorohydrin and associated solvents or process materials, exposure level measurements, exposure control efforts, and recommendations. Bibliography.

Estradiol mustard. See CANCER for carcinogenesis bioassay information.

Ethionamide. See CANCER for carcinogenesis bioassay information.

Ethylenediaminetetraacetic acid (EDTA). See CANCER for carcinogenesis bioassay information.

Ethylene dibromide

Criteria for a Recommended Standard: Occupational Exposure to Ethylene Dibromide. NIOSH. 1977. 216 pp. DHEW (NIOSH) Publ. No. 77-221. NTIS No. PB-276621. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to ethylene dibromide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to ethylene dibromide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Current Intelligence Bulletin 23: Ethylene Dibromide and Disulfiram Toxic Interaction. NIOSH. April 11, 1978. 7 pp. DHEW (NIOSH) Publ. No. 78-145. Request free single copy from NIOSH.

> Contains new information on occupational hazards of ethylene dibromide and disulfiram exposure that are not recognized or

are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

Current Intelligence Bulletin 37: Ethylene Dibromide (EDB). (Revised). NIOSH. October 26, 1981. 13 pp. DHHS (NIOSH) Publ. No. 82-105. Request free single copy from NIOSH.

Contains new information on occupational hazards of ethylene dibromide exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

Ethylene dichloride. See CHEMICAL HAZARDS--1,2-Dichloroethane.

Ethylene oxide

Current Intelligence Bulletin 35: Ethylene Oxide. NIOSH. May 22, 1981. 22 pp. DHHS (NIOSH) Publ. No. 81-130. Request free single copy from NIOSH.

Contains new information on occupational hazards of ethylene oxide exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

Special Occupational Hazard Review with Control Recommendations--Use of Ethylene Oxide as a Sterilant in Medical Facilities. NIOSH. 1978. 69 pp. DHEW (NIOSH) Publ. No. 77-200. NTIS No. PB-274795. Available from NTIS.

Provides an analysis and documentation from a health standpoint of problems associated with ethylene oxide. Recommends implementation of engineering controls and work practices to improve these problems.

Ethylene thiourea

Current Intelligence Bulletin 22: Ethylene Thiourea. NIOSH. April 11, 1978. 7 pp. DHEW (NIOSH) Publ. No. 78-144. Request free single copy from NIOSH.

Contains new information on occupational hazards of ethylene thiourea exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

Special Occupational Hazard Review with Control Recommendations for Ethylene Thiourea. A.R. Gregory. NIOSH. October 1978. 68 pp. DHEW (NIOSH) Publ. No. 79-109. Request free single copy from NIOSH.

Contains a detailed evaluation of the potential mutagenic, teratogenic, and carcinogenic hazards of ethylene thiourea (ETU). Includes information on sampling and analytic methods, synonyms and trade names, and estimated types and numbers of workers exposed. Bibliography.

Ethyl tellurac. See CANCER for carcinogenesis bioassay information.

FD&C Yellow No. 6. See CANCER for carcinogenesis bioassay information.

Fenaminosulf, Formulated. See CANCER for carcinogenesis bioassay information.

Fenthion. See CANCER for carcinogenesis bioassay information.

Fluometuron. See CANCER for carcinogenesis bioassay information.

Fluoride

Criteria for a Recommended Standard: Occupational Exposure to Fluoride. NIOSH. 1976. 191 pp. DHEW (NIOSH) Publ. No. 76-103. GPO No. 017-033-00118-9. NTIS No. PB-246692. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to inorganic fluoride. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to inorganic fluoride; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Fluoride Toxicity. See LITERATURE SEARCHES--National Technical Information Service.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 27. Some Aromatic Amines, Anthraquinones, and Nitroso Compounds, and Inorganic Fluorides Used in Drinking-Water and Dental Preparations. See CHEMICAL HAZARDS--Overviews.

Formaldehyde

Criteria for a Recommended Standard: Occupational Exposure to Formaldehyde. NIOSH. 1976. 177 pp. DHEW (NIOSH) Publ. No. 77-126. NTIS No. PB-273805. Available from NTIS.

Recommends a standard to protect workers from exposure to formaldehyde. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to formaldehyde; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Current Intelligence Bulletin 34: Formaldehyde: Evidence of Carcinogenicity. NIOSH. April 15, 1981. No DHHS number. Request free single copy from NIOSH.

Contains new information on occupational hazards of formaldehyde exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

Formaldehyde and Other Aldehydes. National Academy of Sciences. 1981. 340 pp. Available from National Academy Press.

Contains a detailed study of the environmental and health effects of formaldehyde and other aldehydes. Identifies and characterizes the more hazardous aldehydes that pollute the environment and examines their emission sources, concentration, transformation and transport, effects on the health of animals and humans, and effects on the aquatic and terrestrial environments. Bibliography.

Formaldehyde Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Furfuryl alcohol

Criteria for a Recommended Standard: Occupational Exposure to Furfuryl Alcohol. NIOSH. 1979. 72 pp. DHEW (NIOSH) Publ. No. 79-133. GPO No. 017-033-00348-3. NTIS No. PB80-176050. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to furfuryl alcohol. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to furfuryl alcohol; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Glycidyl ethers

Criteria for a Recommended Standard: Occupational Exposure to Glycidyl Ethers. NIOSH. 1978. 205 pp. DHEW (NIOSH) Publ. No. 78-166. GPO No. 017-033-00313-1. NTIS No. PB81-229700. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to glycidyl ethers. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to glycidyl ethers; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Guanazole. See CANCER for carcinogenesis bioassay information.

Guar gum. See CANCER for carcinogenesis bioassay information.

Gum arabic. See CANCER for carcinogenesis bioassay information.

Heptachlor. See CANCER for carcinogenesis bioassay information.

Hexachlorobiphenyl

Adsorption and Desorption of Hexachlorobiphenyl. D.M. DiToro, L.M. Horzempa, and M.C. Casey. December 1983. NTIS No. PB83-261677. Available from NTIS.

Presents the experimental and theoretical results that lead to the development model for the analysis of adsorption and desorption of hexachlorobiphenyl from suspended and sedimented particles. The desorption reaction was not found to be reversible.

This nonreversible behavior must be taken into account in the development of models for the computation of the fate of toxic chemicals in the environment.

Hexachlorocyclohexane. See CHEMICAL HAZARDS--Lindane.

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin. See CANCER for carcinogenesis bioassay information.

Hexachloroethane. See CANCER for carcinogenesis bioassay information.

Hexachlorophene. See CANCER for carcinogenesis bioassay information.

Hydrazines

Criteria for a Recommended Standard: Occupational Exposure to Hydrazines. NIOSH. 1978. 277 pp. DHEW (NIOSH) Publ. No. 78-172. NTIS No. PB81-225690. Available from NTIS.

Recommends a standard to protect workers from exposure to hydrazines. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to hydrazines; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Hydrazobenzene. See CANCER for carcinogenesis bioassay information.

Hydrogen chloride

Medical and Biologic Effects of Environmental Pollutants: Chlorine and Hydrogen Chloride. See CHEMICAL HAZARDS--Chlorine.

Hydrogen cyanide

Criteria for a Recommended Standard: Occupational Exposure to Hydrogen Cyanide and Cyanide Salts. NIOSH. 1977. 204 pp. DHEW (NIOSH) Publ. No. 77-108. GPO No. 017-033-00163-4. NTIS No. PB-266230. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to hydrogen cyanide and cyanide salts. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to hydrogen cyanide and cyanide salts; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Hydrogen fluoride

Criteria for a Recommended Standard: Occupational Exposure to Hydrogen Fluoride. NIOSH. 1976. 182 pp. DHEW (NIOSH) Publ. No. 76-143. GPO No. 017-033-00171-5. NTIS No. PB81-226516. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to hydrogen fluoride. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to hydrogen fluoride; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Hydrogen sulfide

Criteria for a Recommended Standard: Occupational Exposure to Hydrogen Sulfide. NIOSH. 1978. 161 pp. DHEW (NIOSH) Publ. No. 77-158. GPO No. 017-033-00261-4. NTIS No. PB-274196. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to hydrogen sulfide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to hydrogen sulfide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Hydroquinone

Criteria for a Recommended Standard: Occupational Exposure to Hydroquinone. NIOSH. 1978. 175 pp. DHEW (NIOSH) Publ. No. 78-155. NTIS No. PB81-226508. Available from NTIS.

Recommends a standard to protect workers from exposure to hydroquinone. Provides criteria for the recommended standard, including a literature review of the biologic effects of analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Hydroxyurea. See CANCER for carcinogenesis bioassay information.

3,3'-Iminobis-1-propanol dimethylsulfonate (ester) hydrochloride (IPD). See CANCER for carcinogenesis bioassay information.

Iodoform. See CANCER for carcinogenesis bioassay information.

Isocyanate

Respiratory and Immunologic Evaluation of Isocyanate Exposure in a New Manufacturing Plant. See RESPIRATORY SYSTEMS.

Isophosphamide. See CANCER for carcinogenesis bioassay information.

Isopropyl alcohol

Criteria for a Recommended Standard: Occupational Exposure to Isopropyl Alcohol. NIOSH. 1976. 131 pp. DHEW (NIOSH) Publ. No. 76-142. GPO No. 017-033-00165-1. NTIS No. PB-273873. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to isopropyl alcohol. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to isopropyl alcohol; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Kepone. See CHEMICAL HAZARDS--Chlordecone.

Ketones

Criteria for a Recommended Standard: Occupational Exposure to Ketones. NIOSH. 1978. 255 pp. DHEW (NIOSH) Publ. No. 78-173. NTIS No. PB80-176076. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to ketones. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to ketones; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Lasiocarpine. See CANCER for carcinogenesis bioassay information.

Lead

Advance Data. Blood Lead Levels for Persons 6 Months-74 Years of Age: United States, 1976-1980. NCHS. May 12, 1982. 24 pp. DHHS Publ. No. (PHS) 82-1250. Request free single copy from NCHS.

Presents statistics on the distribution of blood lead levels of persons aged 6 months to 74 years in the United States with respect to age, race, sex, annual family income, and degree of urbanization (of place of residence). These are the first national estimates of lead levels in whole blood obtained on a representative sample of the U.S. population. Bibliography.

Behavioral Effects of Occupational Exposure to Lead. NIOSH. 1975. 246 pp. DHEW (NIOSH) Publ. No. 75-164. GPO No. 017-033-00067-0. NTIS No. PB-267452. Available from GPO and NTIS.

Contains data and results from task performance measurements and body burden levels obtained from workers exposed to inorganic lead in storage battery manufacturing companies. Bibliography.

Biological Effects of Lead Pollution. See LITERATURE SEARCHES--National Technical Information Service.

Criteria for a Recommended Standard: Occupational Exposure to Inorganic Lead. (Revised). NIOSH. 1978. 211 pp. DHEW (NIOSH) Publ. No. 78-158. GPO No. 017-033-00295-9. NTIS No. PB81-225278. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to inorganic lead. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to inorganic lead; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Effects of Inorganic Lead on Behavioral and Neurological Function, The. NIOSH. 1978. 92 pp. DHEW (NIOSH) Publ. No. 78-128. GPO No. 017-033-00282-7. Available from GPO.

Discusses the correlation of sensory and motor functioning, electromyograms, neurologic data, and demographic data with lead absorption within workers exposed to inorganic lead in the storage battery manufacturing industry.

Lead Exposure in Children. See LITERATURE SEARCHES--National Library of Medicine.

Lead Exposure: Public and Occupational Health Hazards. See LITERATURE SEARCHES--National Technical Information Service.

Studies in Children Exposed to Low Levels of Lead. H.L. Needleman. Health Effects Research Laboratory, EPA. December 1981. 37 pp. NTIS No. PB82-108432. Available from NTIS.

Presents the details of a study conducted to examine the impact of low-level lead exposure on the neuropsychological function of children.

Lead dimethyldithiocarbamate. See CANCER for carcinogenesis bioassay information.

Lindane. See CANCER for carcinogenesis bioassay information.

Lithocholic acid. See CANCER for carcinogenesis bioassay information.

Locust bean gum. See CANCER for carcinogenesis bioassay information.

Lomustine. See CANCER for carcinogenesis bioassay information.

Malaoxon. See CANCER for carcinogenesis bioassay information.

Malathion. See CANCER for carcinogenesis bioassay information.

Criteria for a Recommended Standard: Occupational Exposure to Malathion. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Manganese

Toxicity of Manganese. See LITERATURE SEARCHES--National Technical Information Service.

D-Mannitol. See CANCER for carcinogenesis bioassay information.

Melamine. See CANCER for carcinogenesis bioassay information.

Melphalan. See CANCER for carcinogenesis bioassay information.

dl-Menthol. See CANCER for carcinogenesis bioassay information.

6-Mercaptopurine. See CANCER for carcinogenesis bioassay information.

Mercury

Biological Effects of Mercury Pollution. See LITERATURE SEARCHES--National Technical Information Service.

Merphalan. See CANCER for carcinogenesis bioassay information.

Methotrexate. See CANCER for carcinogenesis bioassay information.

Methoxychlor. See CANCER for carcinogenesis bioassay information.

Methyl CCNU (4-methylcyclohexyl)-2-(chloroethyl)nitrosourea. See CANCER for carcinogenesis bioassay information.

Methyl alcohol

Criteria for a Recommended Standard: Occupational Exposure to Methyl Alcohol. NIOSH. 1976. 148 pp. DHEW (NIOSH) Publ. No. 76-148. GPO No. 017-033-00191-0. NTIS No. PB-273806. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to methyl alcohol. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to methyl alcohol; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Methyl chloride

Behavioral and Neurological Effects of Methyl Chloride. NIOSH. 1976. 199 pp. DHEW (NIOSH) Publ. No. 77-125. GPO No. 017-033-00188-0. NTIS No. PB-274770. Available from GPO and NTIS.

Discusses potential health hazards to workers employed in foam products manufacturing. Presents adverse health effects correlated with indices of exposure.

Methyl parathion. See CANCER for carcinogenesis bioassay information.

Criteria for a Recommended Standard: Occupational Exposure to Methyl Parathion. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Methylene chloride

Criteria for a Recommended Standard: Occupational Exposure to Methylene Chloride. NIOSH. 1976. 167 pp. DHEW (NIOSH) Publ. No. 76-138. GPO No. 017-33-00194-4. NTIS No. PB81-227027. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to methylene chloride. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to methylene chloride; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Extent-of-Exposure Survey of Methylene Chloride. J.M. Cohen, R. Dawson, and M. Koketsu. NIOSH. August 1980. 47 pp. DHHS (NIOSH) Publ. No. 80-131. Request free single copy from NIOSH.

Presents the results of 94 full-shift personal samples of methylene chloride exposure for workers in 19 job classifications and area samples of 19 different sites at 3 facilities. Includes information on production; toxicity and human exposure standards; descriptions of operations and jobs, exposure control efforts, and health and safety programs; worker exposure levels to methylene chloride and associated substances (acetone, methanol, coffee dust, and ammonia). Contains an evaluation of findings and recommendations. Bibliography.

4,4'-Methylenebis(2-chloroaniline)

Special Hazard Review with Control Recommendations for 4,4'-Methylenebis (2-chloroaniline). NIOSH. September 1978. 67 pp. DHEW (NIOSH) Publ. No. 78-188. Request free single copy from NIOSH.

Presents an information update on the hazards associated with 4,4'-methylenebis(2-chloroaniline) and recommendations for reducing workplace exposure. Includes information on respirator use, sampling and analytic methods, synonyms and trade names, and estimated number of workers exposed.

4,4'-Methylenebis(N,N-dimethyl)benzenamine. See CANCER for carcinogenesis bioassay information.

4,4'-Methylenedianiline dihydrochloride. See CANCER for carcinogenesis bioassay information.

6-Methylmercaptopurine ribonucleoside. See CANCER for carcinogenesis bioassay information.

2-Methyl-1-nitroanthraquinone. See CANCER for carcinogenesis bioassay information.

Mexacarbate. See CANCER for carcinogenesis bioassay information.

Mitomycin C. See CANCER for carcinogenesis bioassay information.

1,5-Napthalenediamine. See CANCER for carcinogenesis bioassay information.

N-(1-Naphthyl)ethylenediamine dihydrochloride. See CANCER for carcinogenesis bioassay information.

Nickel

Criteria for a Recommended Standard: Occupational Exposure to Inorganic Nickel. NIOSH. 1977. 293 pp. DHEW (NIOSH) Publ. No. 77-164. NTIS No. PB-274201. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to inorganic nickel. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to inorganic nickel; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Environmental Exposure to Airborne Contaminants in the Nickel Industry 1976-1977. NIOSH. 1978. 35 pp. DHEW (NIOSH) Publ. No. 78-178. NTIS No. PB-287371. Available from NTIS.

> Contains reports of the effects of exposure to nickel in three different nickel-processing operations (nickel smelter, nickel refinery, and an inorganic chemical plant that manufactures nickel salts and solutions).

Fetotoxic Effects of Nickel in Drinking Water in Mice. See REPRODUCTIVE AND DEVELOPMENTAL HAZARDS.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 11. Cadmium, Nickel, Some Epoxides, Miscellaneous Industrial Chemicals, and General Considerations on Volatile Anaesthetics. See CHEMICAL HAZARDS--Overviews.

Medical and Biologic Effects of Environmental Pollutants: Nickel. National Academy of Sciences. 1975. 277 pp. Available from National Academy Press.

Assesses health and ecologic hazards from nickel exposure. Identifies nickel compounds that have possible adverse health effects on animals and humans. Bibliography.

Toxicity of Nickel. See LITERATURE SEARCHES--National Technical Information Service.

Nithiazide. See CANCER for carcinogenesis bioassay information.

Nitric acid

Criteria for a Recommended Standard: Occupational Exposure to Nitric Acid. NIOSH. 1976. 78 pp. DHEW (NIOSH) Publ. No. 76-141. GPO No. 017-033-00169-3. NTIS No. PB81-227217. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to nitric acid. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to nitric acid; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Nitriles

Criteria for a Recommended Standard: Occupational Exposure to Nitriles. NIOSH. 1978. 163 pp. DHEW (NIOSH) Publ. No. 78-212. NTIS No. PB81-225534. Available from NTIS.

Recommends a standard to protect workers from exposure to nitriles. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to nitriles; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

NTA (Nitrilotriacetic acid) and nitrilotriacetic acid, trisodium salt monohydrate. See CANCER for carcinogenesis bioassay information.

5-Nitroacenaphthene. See CANCER for carcinogenesis bioassay information.

3-Nitro-p-acetophenetide. See CANCER for carcinogenesis bioassay information.

5-Nitro-o-anisidine. See CANCER for carcinogenesis bioassay information.

4-Nitroanthranilic acid. See CANCER for carcinogenesis bioassay information.

6-Nitrobenzimidazole. See CANCER for carcinogenesis bioassay information.

Nitrofen. See CANCER for carcinogenesis bioassay information.

Nitrogen oxides

Criteria for a Recommended Standard: Occupational Exposure to Oxides of Nitrogen. NIOSH. 1976. 196 pp. DHEW (NIOSH) Publ. No. 76-149. NTIS No. PB81-226995. Available from NTIS.

Recommends a standard to protect workers from exposure to nitrogen oxides. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to nitrogen oxides; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Medical and Biologic Effects of Environmental Pollutants: Nitrogen Oxides. National Academy of Sciences. 1977. 333 pp. Available from National Academy Press.

Assesses health and ecologic hazards from nitrogen oxide exposure. Discusses emission sources and effects on the health of animals and humans and on the aquatic and terrestrial environments. Bibliography.

Nitrogen Oxide Air Pollution: Biological Effects. See LITERATURE SEARCHES--National Technical Information Service.

Nitroglycerin

Criteria for a Recommended Standard: Occupational Exposure to Nitroglycerin and Ethylene Glycol Dinitrate. NIOSH. 1978. 223 pp. DHEW (NIOSH) Publ. No. 78-167. NTIS No. PB81-225526. Available from NTIS.

Recommends a standard to protect workers from exposure to nitroglycerin and ethylene glycol dinitrate. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to nitroglycerin and ethylene glycol dinitrate; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

1-Nitronaphthalene. See CANCER for carcinogenesis bioassay information.

2-Nitro-p-phenylenediamine. See CANCER for carcinogenesis bioassay information.

4-Nitro-o-phenylenediamine. See CANCER for carcinogenesis bioassay information.

3-Nitropropionic acid. See CANCER for carcinogenesis bioassay information.

N-Nitrosodiphenylamine. See CANCER for carcinogenesis bioassay information.

p-Nitrosodiphenylamine. See CANCER for carcinogenesis bioassay information.

b-Nitrostyrene and styrene. See CANCER for carcinogenesis bioassay information.

5-Nitro-o-toluidine. See CANCER for carcinogenesis bioassay information.

Organotin compounds

Criteria for a Recommended Standard: Occupational Exposure to Organotin Compounds. NIOSH. 1977. 196 pp. DHEW (NIOSH) Publ. No. 77-115. GPO No. 017-033-00203-7. NTIS No. PB-274766. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to organotin compounds. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to organotin compounds; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

4,4'-Oxydianiline. See CANCER for carcinogenesis bioassay information.

Ozone

Medical and Biologic Effects of Environmental Pollutants: Ozone and Other Photochemical Oxidants. See AIR POLLUTION.

Pulmonary Function and Bronchial Reactivity in Human Subjects with Exposure to Ozone and Respirable Sulfuric Acid Aerosol: An Environmental Chamber Study. See AIR POLLUTION.

Parathion. See CANCER for carcinogenesis bioassay information.

Criteria for a Recommended Standard: Occupational Exposure to Parathion. See PESTICIDES, HERBICIDES, AND INSECTICIDES.

Pentachloroethane. See CANCER for carcinogenesis bioassay information.

Pentachloronitrobenzene. See CANCER for carcinogenesis bioassay information.

Perchloroethylene

Engineering Control Technology Assessment of the Dry Cleaning Industry. See ORGANIC SOLVENTS.

Phenazopyridine hydrochloride. See CANCER for carcinogenesis bioassay information.

Phenesterin. See CANCER for carcinogenesis bioassay information.

Phenformin. See CANCER for carcinogenesis bioassay information.

Phenol

Criteria for a Recommended Standard: Occupational Exposure to Phenol. NIOSH. 1976. 179 pp. DHEW (NIOSH) Publ. No. 76-196. NTIS No. PB-266495. Available from NTIS.

Recommends a standard to protect workers from exposure to phenol. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to phenol; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Phenol. See CANCER for carcinogenesis bioassay information.

Phenoxybenzamine hydrochloride. See CANCER for carcinogenesis bioassay information.

p-Phenylenediamine dihydrochloride. See CANCER for carcinogenesis bioassay information.

1-Phenyl-3-methyl-5-pyrazolone. See CANCER for carcinogenesis bioassay information.

N-Phenyl-p-phenylenediamine. See CANCER for carcinogenesis bioassay information.

1-Phenyl-2-thiourea. See CANCER for carcinogenesis bioassay information.

Phosgene

Criteria for a Recommended Standard: Occupational Exposure to Phosgene. NIOSH. 1976. 140 pp. DHEW (NIOSH) Publ. No. 76-137. NTIS No. PB-267514. Available from NTIS.

Recommends a standard to protect workers from exposure to phosgene. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to phosgene; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Phosphamidon. See CANCER for carcinogenesis bioassay information.

Photodieldrin. See CANCER for carcinogenesis bioassay information.

Phthalamide. See CANCER for carcinogenesis bioassay information.

Phthalic anhydride. See CANCER for carcinogenesis bioassay information.

Picloram. See CANCER for carcinogenesis bioassay information.

Piperonyl butoxide. See CANCER for carcinogenesis bioassay information.

Piperonyl sulfoxide. See CANCER for carcinogenesis bioassay information.

Pivalolactone. See CANCER for carcinogenesis bioassay information.

Polybrominated biphenyls

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 18. Polychlorinated Biphenyls and Polybrominated Biphenyls. See CHEMICAL HAZARDS--Overviews.

Polybrominated Biphenyls: Metabolism and Toxicity. See LITERATURE SEARCHES--National Technical Information Service.

Polybrominated Biphenyl Mixture (Firemaster FF-1). See CANCER for carcinogenesis bioassay information.

Toxicology of Polybrominated Biphenyl Compounds. See LITERATURE SEARCHES--National Library of Medicine.

Polychlorinated biphenyls

Aroclor 1254. See CANCER for carcinogenesis bioassay information.

Criteria for a Recommended Standard: Occupational Exposure to Polychlorinated Biphenyls. NIOSH. 1977. 232 pp. DHEW (NIOSH) Publ. No. 77-225. NTIS No. PB-276849. Available from NTIS.

Recommends a standard to protect workers from exposure to polychlorinated biphenyls. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to polychlorinated biphenyls; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 18. Polychlorinated Biphenyls and Polybrominated Biphenyls. See CHEMICAL HAZARDS--Overviews.

Permeation of Protective Garment Material by Liquid Halogenated Ethanes and a Polychlorinated Biphenyl. See ORGANIC SOLVENTS.

Polychlorinated Biphenyls in the Environment. See LITERATURE SEARCHES--National Technical Information Service.

Toxicology of Polychlorinated Biphenyl Compounds. See LITERATURE SEARCHES--National Library of Medicine.

Polyvinyl chloride

Toxicology of Vinyl Chloride and Polyvinyl Chloride. See LITERATURE SEARCHES--National Technical Information Service.

Prednisone. See CANCER for carcinogenesis bioassay information.

Procarbazine hydrochloride. See CANCER for carcinogenesis bioassay information.

Proflavin hydrochloride. See CANCER for carcinogenesis bioassay information.

Propyl gallate. See CANCER for carcinogenesis bioassay information.

Pyrazinamide. See CANCER for carcinogenesis bioassay information.

Pyrimethamine. See CANCER for carcinogenesis bioassay information.

D & C Red 9. See CANCER for carcinogenesis bioassay information.

Reserpine. See CANCER for carcinogenesis bioassay information.

Selenium

Adverse Effects of Selenium. See LITERATURE SEARCHES--National Library of Medicine.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 9. Some Aziridines, N-, S-, and O-Mustards, and Selenium. See CHEMICAL HAZARDS--Overviews.

Toxicity of Selenium. See LITERATURE SEARCHES--National Technical Information Service.

Selenium sulfide. See CANCER for carcinogenesis bioassay information.

Selsun. See CANCER for carcinogenesis bioassay information.

Sodium

Report on Classroom Use of Sodium Vapor Lamps. L.F. Mills and F.A. Anderson. Bureau of Radiological Health, FDA. January 1982. 3 pp. DHHS Publ. FDA 82-8183. Request free single copy from FDA.

Presents data and results of an investigation into alleged visual problems and other health hazards from exposure to sodium vapor lamps. Bibliography.

Sodium diethyldithiocarbamate. See CANCER for carcinogenesis bioassay information.

Sodium hydroxide

Criteria for a Recommended Standard: Occupational Exposure to Sodium Hydroxide. NIOSH. 1976. 93 pp. DHEW (NIOSH) Publ. No. 76-105. GPO No. 017-033-00110-3. NTIS No. PB-246694. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to sodium hydroxide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to sodium hydroxide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Stannous chloride. See CANCER for carcinogenesis bioassay information.

Streptozoticin. See CANCER for carcinogenesis bioassay information.

Styrene

Extent of Exposure to Styrene in the Reinforced Plastic Boat Making Industry. M.S. Crandall. NIOSH. March 1982. 79 pp. DHHS (NIOSH) Publ. No. 82-110. Request free single copy from NIOSH.

Presents the results of industrial hygiene surveys conducted in seven fiberglass reinforced plastic boat fabrication plants. Includes information on production; toxicity and human exposure standards; descriptions of operations and jobs, exposure control efforts, and health and safety programs; worker exposure levels to styrene; and discussion of findings. Bibliography.

Health Hazards from Styrenes in Industry. See LITERATURE SEARCHES--National Technical Information Service.

See CANCER for carcinogenesis bioassay information.

Succinic acid 2,2-dimethylhydrazide. See CANCER for carcinogenesis bioassay information.

Sulfallate. See CANCER for carcinogenesis bioassay information.

Sulfisoxazole. See CANCER for carcinogenesis bioassay information.

3-Sulfolene. See CANCER for carcinogenesis bioassay information.

4,4'-Sulfonyldianiline. See CANCER for carcinogenesis bioassay information.

Sulfur dioxide

Criteria for a Recommended Standard: Occupational Exposure to Sulfur Dioxide. NIOSH. 1974. 121 pp. DHEW (NIOSH) Publ. No. 74-111. NTIS No. PB-228152. Available from NTIS.

Recommends a standard to protect workers from exposure to sulfur dioxide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to sulfur dioxide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Sulfuric acid

Criteria for a Recommended Standard: Occupational Exposure to Sulfuric Acid. NIOSH. 1974. 90 pp. DHEW (NIOSH) Publ. No. 74-128. NTIS No. PB-233098. Available from NTIS.

Recommends a standard to protect workers from exposure to sulfuric acid. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to sulfuric acid; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Pulmonary Function and Bronchial Reactivity in Human Subjects with Exposure to Ozone and Respirable Sulfuric Acid Aerosol: An Environmental Chamber Study. See AIR POLLUTION.

Review and Evaluation of Recent Literature: Occupational Exposure to Sulfuric Acid. NIOSH. June 1981. 39 pp. DHHS (NIOSH) Publ. No. 82-104. Request free single copy from NIOSH.

> Reviews and evaluates information published on sulfuric acid since the completion of the 1974 criteria document. Describes new information on sampling and analysis, work practices and engineering controls, toxic effects reported in humans and animals, and acid rain.

Tara gum. See CANCER for carcinogenesis bioassay information.

2,3,7,8-Tetrachloro-dibenzo-p-dioxin. See CANCER for carcinogenesis bioassay information.

TDE (Tetrachlorodiphenylethane). See CANCER for carcinogenesis bioassay information.

1,1,1,2-Tetrachloroethane. See CANCER for carcinogenesis bioassay information.

1,1,2,2-Tetrachloroethane

Criteria for a Recommended Standard: Occupational Exposure to 1,1,2,2-Tetrachloroethane. NIOSH. 1976. 154 pp. DHEW (NIOSH) Publ. No. 77-121. NTIS No. PB-273802. Available from NTIS.

> Recommends a standard to protect workers from exposure to 1,1,2,2-tetrachloroethane. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to 1,1,2,2-tetrachloroethane; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

See CANCER for carcinogenesis bioassay information.

Tetrachloroethylene

Criteria for a Recommended Standard: Occupational Exposure to Tetrachloroethylene. NIOSH. 1976. 157 pp. DHEW (NIOSH) Publ. No. 76-185. NTIS No. PB-266583. Available from NTIS.

> Recommends a standard to protect workers from exposure to tetrachloroethylene. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure

to tetrachloroethylene; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

See CHEMICAL HAZARDS--Perchloroethylene.

See CANCER for carcinogenesis bioassay information.

2,3,5,6-Tetrachloro-4-nitroanisole. See CANCER for carcinogenesis bioassay information.

Tetrachlorvinphos. See CANCER for carcinogenesis bioassay information.

Tetraethylthiuram disulfide. See CANCER for carcinogenesis bioassay information.

4,4'-Thiodianiline. See CANCER for carcinogenesis bioassay information.

beta-Thioguanidine deoxyriboside. See CANCER for carcinogenesis bioassay information.

Titanium dioxide. See CANCER for carcinogenesis bioassay information.

Tolazamide. See CANCER for carcinogenesis bioassay information.

Tolbutamide. See CANCER for carcinogenesis bioassay information.

o-Tolidine

Criteria for a Recommended Standard: Occupational Exposure to o-Tolidine. 1978. NIOSH. 85 pp. DHEW (NIOSH) Publ. No. 78-179. NTIS No. PB81-227084. Available from NTIS.

Recommends a standard to protect workers from exposure to o-tolidine. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to o-tolidine; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Health Hazard Alert: Benzidine-, o-Tolidine-, and o-Dianisidine-Based Dyes. See TEXTILE AND DYE MANUFACTURING.

Toluene diisocyanate. See CHEMICAL HAZARDS--Isocyanate.

2,6-Toluenediamine dihydrochloride. See CANCER for carcinogenesis bioassay information.

2,5-Toluenediamine sulfate. See CANCER for carcinogenesis bioassay information.

o-Toluidine hydrochloride. See CANCER for carcinogenesis bioassay information.

Toxaphene. See CANCER for carcinogenesis bioassay information.

1,1,1-Trichloroethane

Criteria for a Recommended Standard: Occupational Exposure to 1,1,1-Trichloroethane (Methyl Chloroform). NIOSH. 1976. 191 pp. DHEW (NIOSH) Publ. No. 76-184. NTIS No. PB-267069. Available from NTIS.

Recommends a standard to protect workers from exposure to 1,1,1-trichloroethane (methyl chloroform). Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to 1,1,1-trichloroethane (methyl chloroform); environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

See CANCER for carcinogenesis bioassay information.

1,1,2-Trichloroethane. See CANCER for carcinogenesis bioassay information.

Trichloroethylene. See CANCER for carcinogenesis bioassay information.

Trichlorofluoromethane. See CANCER for carcinogenesis bioassay information.

2,4,6-Trichlorophenol. See CANCER for carcinogenesis bioassay information.

Trifluralin. See CANCER for carcinogenesis bioassay information.

2,4,5-Trimethylaniline. See CANCER for carcinogenesis bioassay information.

Trimethylphosphate. See CANCER for carcinogenesis bioassay information.

Trimethylthiourea. See CANCER for carcinogenesis bioassay information.

Triphenyltin hydroxide. See CANCER for carcinogenesis bioassay information.

Tris(aziridinyl)-phosphine sulfide. See CANCER for carcinogenesis bioassay information.

Tris(2,3-dibromopropyl) phosphate. See CANCER for carcinogenesis bioassay information.

L-Tryptophan. See CANCER for carcinogenesis bioassay information.

Tungsten

Criteria for a Recommended Standard: Occupational Exposure to Tungsten and Tungsten Carbide. NIOSH. 1977. 182 pp. DHEW (NIOSH) Publ. No. 77-227. GPO No. 017-033-00254-1. NTIS No. PB-275594. Available from NTIS.

Recommends a standard to protect workers from exposure to tungsten and tungsten carbide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to tungsten and tungsten carbide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Uracil mustard. See CANCER for carcinogenesis bioassay information.

Uranium

Test Procedure for Uranium in Drinking Water: Interlaboratory Collaborative Study. C.A. Phillips, C.T. Bishop, and E.L. Whittaker. November 1983. NTIS No. PB83-247239. Available from NTIS.

Presents the result of a study to estimate the precision and accuracy of a test procedure to measure the concentration of uranium in drinking water. Drinking water samples containing uranium alpha concentrations were analyzed by 19 collaborating laboratories using the test procedure. Results were statistically analyzed.

Vanadium

Criteria for a Recommended Standard: Occupational Exposure to Vanadium. NIOSH. 1977. 150 pp. DHEW (NIOSH) Publ. No. 77-222. GPO No. 017-033-00252-5. NTIS No. PB81-225658. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to vanadium. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to vanadium; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Vinblastine. See CANCER for carcinogenesis bioassay information.

Vincristine. See CANCER for carcinogenesis bioassay information.

Vinyl acetate

Criteria for a Recommended Standard: Occupational Exposure to Vinyl Acetate. NIOSH. Revised 1981. 89 pp. DHEW (NIOSH) Publ. No. 78-205. NTIS No. PB80-176993. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to vinyl acetate. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to vinyl acetate; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Vinyl bromide. See CHEMICAL HAZARDS--Vinyl halides.

Vinyl chloride. See CHEMICAL HAZARDS--Vinyl halides.

Vinyl fluoride. See CHEMICAL HAZARDS--Vinyl halides.

Vinyl halides

Cross-Sectional Epidemiological Survey of Vinyl Chloride Workers, A. NIOSH. 1977. 50 pp. DHEW (NIOSH) Publ. No. 77-177. NTIS No. PB-274193. Available from NTIS.

Presents results of a medical survey that determined the prevalence of illness and abnormalities in vinyl chloride workers.

This study was based on data gathered by interviews, medical examinations, blood and pulmonary function tests, liver scans, and chest X-rays.

Current Intelligence Bulletin 28: Vinyl Halides Carcinogenicity. NIOSH. September 21, 1978. 12 pp. DHEW (NIOSH) Publ. No. 79-102. Request free single copy from NIOSH.

Contains new information on occupational hazards of vinyl halide exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures, toxicity, as well as case reports, chemical synonyms, and recommendations. Bibliography.

Toxicity of Vinyl Chloride. See LITERATURE SEARCHES--National Technical Information Service.

Toxicology of Vinyl Chloride and Polyvinyl Chloride. See LITERATURE SEARCHES--National Technical Information Service.

Vinyl Chloride: An Information Resource. Prevention Branch, Division of Cancer Control and Rehabilitation, NCI. Reprinted August 1981. 92 pp. and appendixes. DHEW Publ. No. (NIH) 81-1599. NTIS No. HRP-0028012/3. Request free single copy from NCI.

Explores the scientific evidence linking vinyl chloride to human cancer. Covers regulatory history, production, use, carcinogenicity, and control programs. Bibliography.

Vinyl Chloride Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Vinyl Fluoride and Vinyl Bromide Industrial Hygiene Survey Report. R.E. Bales. NIOSH. November 1978. 22 pp. DHEW (NIOSH) Publ. No. 79-111. Request free single copy from NIOSH.

Consolidates the findings of industrial hygiene surveys conducted at a vinyl fluoride manufacturing plant, a vinyl fluoride polymerization plant, and a vinyl bromide manufacturing plant. The primary purpose of this study was to determine worker exposures to vinyl fluoride and vinyl bromide and to document engineering controls, work practices, administrative controls, and biologic and environmental sampling requirements. Bibliography.

Vinylidene chloride. See CANCER for carcinogenesis bioassay information.

Xylene

Criteria for a Recommended Standard: Occupational Exposure to Xylene. NIOSH. 1975. 101 pp. DHEW (NIOSH) Publ. No. 75-168. NTIS No. PB-246702. Available from NTIS.

Recommends a standard to protect workers from exposure to xylene. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to xylene; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Zearalenone. See CANCER for carcinogenesis bioassay information.

Zinc

Toxicity of Zinc. See LITERATURE SEARCHES--National Technical Information Service.

Zinc in Food. See LITERATURE SEARCHES--National Technical Information Service.

Zinc Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Zinc oxide

Criteria for a Recommended Standard: Occupational Exposure to Zinc Oxide. NIOSH. 1976. 87 pp. DHEW (NIOSH) Publ. No. 76-104. GPO No. 017-033-00109-0. NTIS No. PB-246693. Available from GPO and NTIS.

Recommends a standard to protect workers from exposure to zinc oxide. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to zinc oxide; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Ziram. See CANCER for carcinogenesis bioassay information.

Audiovisual Resources in Occupational Safety and Health. See DISEASE PREVENTION AND HEALTH PROMOTION.

Carcinogen Bioassay Methodology. See LITERATURE SEARCHES--National Technical Information Service.

Carcinogens Found in the Petroleum and Petrochemical Industries. See LITERATURE SEARCHES--National Technical Information Service.

Carcinogens--Regulation and Control. A Management Guide to Carcinogens--Regulation and Control. See CANCER.

Carcinogens--Regulation and Control. Working with Carcinogens--A Guide to Good Health Practices. See CANCER.

Carcinogenicity Testing Methods. See LITERATURE SEARCHES--National Technical Information Service.

Criteria for a Recommended Standard: An Identification System for Occupationally Hazardous Materials. NIOSH. 1975. 73 pp. DHEW (NIOSH) Publ. No. 75-126. NTIS No. PB-246698. Available from NTIS.

> Recommends a standard to protect workers from exposure to occupationally hazardous materials. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to occupationally hazardous materials; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Environmental Carcinogens. See LITERATURE SEARCHES--National Technical Information Service.

Exposure to Environmental Agents, Their Metabolism and Mechanisms of Toxicity. 1982. Special Issue of Journal of Environmental Science and Health. pp. 447-608. Volume A17, No. 4. Request free single copy from Technical Resources, Inc.

> Contains position papers from a workshop sponsored by the Task Force on Environmental Cancer and Heart and Lung Disease to identify research needs that are important in addressing the problems of environment-related cancer and heart and lung disease. Major areas covered are exposure epidemiology, exposure quantification, metabolism, integration of toxicity, and mechanisms of toxicity and carcinogenicity.

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Hazardous Substances Summary and Full Development Plan. Interagency Regulatory Liaison Group (CPSC, EPA, FDA, OSHA). December 1, 1978. 236 pp. Request free single copy from Office of Pesticides and Toxic Substances, EPA.

> Contains development plans for 24 hazardous materials for which two or more of the IRLG Agencies intended to take regulatory action. Includes background and regulatory information and recommendations.

Hazardous Waste Sites and Hazardous Substance Emergencies. Worker Bulletin. NIOSH. December 1982. 22 pp. DHHS (NIOSH) Publ. No. 83-100. Request free single copy from NIOSH.

> Familiarizes the hazardous waste worker with the potential hazards he/she may face and precautions that must be taken in order to work as safely as possible.

Health Hazard Evaluation Summaries. NIOSH. No NIOSH Publ. No. Complete HHE available from NIOSH and NTIS. Order information included in summaries. Request free single copy from NIOSH.

October 1980, 46 pp.; May 1981, 50 pp.; January 1982, 48 pp.; May 1982, 56 pp.

> These four documents contain summaries of field investigations conducted in workplaces having possible health hazards. Describes the types of hazards and workplaces that NIOSH has investigated, the study approaches used, and the recommended control procedures.

Historical Reviews: Industrial, Occupational, and Public Health and Safety. See LITERATURE SEARCHES--National Technical Information Service.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. International Agency for Research on Cancer, World Health Organization. Available in medical and university libraries and from WHO.

> A series of monographs resulting from the deliberations of an international group of experts on chemical carcinogens. Presents state of knowledge information and evaluates data to determine possible human risk and the need for future research efforts. Included for each chemical are the following: chemical and physical data, use and occurrence, biological data relevant to the carcinogenic risk to man, comments on data reported and evaluated, and references.

Volume 1. 1972. 184 pp.

Volume 2. Some Inorganic and Organometallic Compounds. 1973. 181 pp.

Volume 3. Certain Polycyclic Aromatic Hydrocarbons and Heterocyclic Compounds. 1973. 271 pp.

Volume 4. Some Aromatic Amines, Hydrazine, and Related Substances, N-nitroso Compounds and Miscellaneous Alkylating Agents. 1974. 286 pp.

Volume 5. Some Organochlorine Pesticides. 1974. 241 pp.

Volume 6. Sex Hormones. 1974. 243 pp.

Volume 7. Some Anti-thyroid and Related Substances, Nitrofurans, and Industrial Chemicals. 1974. 326 pp.

Volume 8. Some Aromatic Azo Compounds. 1975. 357 pp.

Volume 9. Some Aziridines, N-, S-, and O-Mustards and Selenium. 1975. 268 pp.

Volume 10. Some Naturally Occurring Substances. 1976. 353 pp.

Volume 11. Cadmium, Nickel, Some Epoxides, Miscellaneous Industrial Chemicals, and General Considerations on Volatile Anaesthetics. 1976. 306 pp.

Volume 12. Some Carbamates, Thiocarbamates, and Carbazides. 1976. 282 pp.

Volume 13. Some Miscellaneous Pharmaceutical Substances. 1977. 255 pp.

Volume 14. Asbestos. 1977. 106 pp.

Volume 15. Some Fumigants, the Herbicides, 2,4-D and 2,4,5-T, Chlorinated Dibenzodioxins and Miscellaneous Industrial Chemicals. 1977. 354 pp.

Volume 16. Some Aromatic Amines and Related Nitro Compounds--Hair Dyes, Coloring Agents, and Miscellaneous Industrial Chemicals. 1978. 400 pp.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. International Agency for Research on Cancer, World Health Organization. Available in medical and university libraries and from WHO.

Continuation of IARC Monograph series (described in previous entry).

Volume 17. Some N-Nitroso Compounds. 1978. 365 pp.

Volume 18. Polychlorinated Biphenyls and Polybrominated Biphenyls. 1978. 140 pp.

Volume 19. Some Monomers, Plastics, and Synthetic Elastomers, and Acrolein. 1979. 513 pp.

Volume 21. Sex Hormones (II). 1979. 583 pp.

Volume 22. Some Non-Nutritive Sweetening Agents. 1980. 208 pp.

Volume 23. Some Metals and Metallic Compounds. 1980. 438 pp.

Volume 24. Some Pharmaceutical Drugs. 1980. 337 pp.

Volume 25. Wood, Leather, and Some Associated Industries. 1981. 412 pp.

Volume 26. Some Antineoplastic and Immunosuppressive Agents. 1981. 411 pp.

Volume 27. Some Aromatic Amines, Anthraquinones, and Nitroso Compounds, and Inorganic Flourides Used in Drinking Water and Dental Preparations. 1982. 341 pp.

Volume 28. The Rubber Industry. 1982. 486 pp.

Volume 29. Some Industrial Chemicals and Dyestuffs. 1982. 416 pp.

Volume 30. Miscellaneous Pesticides. 1983. 424 pp.

Volume 31. Some Food Additives, Feed Additives, and Naturally Occurring Substances. 1983. 314 pp.

Supplement 1. Chemicals and Industrial Processes Associated with Cancer in Humans. IARC Monographs, Volume 1 to 20. 1979. 71 pp.

Supplement 2. Long-term and Short-term Screening Assays for Carcinogens: A Critical Appraisal. 1980. 426 pp.

Supplement 3. Cross Index of Synonyms and Trade Names. Volumes 1 to 26. 1982. 199 pp.

Supplement 4. Chemicals, Industrial Processes, and Industries Associated with Cancer in Humans. IARC Monographs, Volumes 1 to 29. 1982. 292 pp.

Identifying and Estimating the Genetic Impact of Chemical Mutagens. National Academy of Sciences. 1983. 275 pp. Available from National Academy Press.

> Describes a two-tier system of inexpensive, short-term, sensitive mutagenicity tests that can be widely applied to identify substances that represent a mutagenic hazard. Suggestions for further research are included.

Industrial Environment: Its Evaluation and Control, The. NIOSH. 1974. 719 pp. DHEW (NIOSH) Publ. No. 74-117. GPO No. 017-001-00396-4. Available from GPO.

Standard textbook providing information on mathematics, chemistry, biochemistry, physiology, and toxicology in the first chapters. Other chapters deal with evaluating the potentially harmful effects of physical and chemical air contaminants. Bibliography.

Industrial Hygiene. See LITERATURE SEARCHES--National Technical Information Service.

NIOSH Health and Safety Guide for the Miscellaneous Chemical Products Industry. NIOSH. August 1977. DHEW (NIOSH) Publ. No. 77-194. 74 pp. Request free single copy from NIOSH.

Presents general aspects of exposure to toxic substances and unsafe conditions that may be found in the peripheral activities of the miscellaneous chemical products industry, such as maintenance or material handling. Intended to acquaint management with health and safety guidelines and to provide a basic approach for assessing problem areas.

NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards. NIOSH and OSHA. January 1981. Three volumes. DHHS (NIOSH) Publ. No. 81-123. GPO No. 017-033-00337-8. Available from GPO.

Contains information on over 300 substances for which there are Federal occupational safety and health regulations. Includes health hazard information and summary information about specific chemical substances found at the worksite. Bibliography.

NIOSH Publications Catalog. NIOSH. 5th ed. October 1981. 290 pp. DHHS (NIOSH) Publ. No. 82-116. Request free single copy from NIOSH.

Includes a subject index guide, numerical lists of NIOSH numbered publications, Health Hazard Evaluations, contract reports, and industry-wide studies.

Occupational Health Surveillance Manual. Assistant Secretary of Defense, DoD. July 1982. 60 pp. DoD Publ. No. 6055.5-M. Request free single copy from the Director, U.S. Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.

Serves as a reference for occupational health professionals. It is oriented toward specific chemical, physical, and biological hazards common throughout DoD facilities. Recommends medical surveillance for workers occupationally exposed to chemical hazards.

Occupational Safety and Health Symposia 1978. NIOSH. 1979. 165 pp. DHEW (NIOSH) Publ. No. 80-105. GPO No. 017-033-00355-6. NTIS No. PB80-175706. Available from GPO and NTIS.

Contains papers presented at the 38th American Medical Association Congress on Occupational Health co-sponsored by NIOSH. Topics include reproductive hazards in the workplace, shift work, injuries to the extremities, pesticide hazards, and other subjects related to occupational safety and health.

Pocket Guide to Chemical Hazards. NIOSH and OSHA. August 1981. 4th Printing. 191 pp. DHEW (NIOSH). Publ. No. 78-210. GPO No. 017-033-00342-4. Request free single copy from NIOSH.

Contains information and recommendations in tabular form relating to permissible exposure limits, chemical and physical properties, health hazard information, respiratory and personal protection, and sanitation practices for 380 chemicals.

Proceedings of the U.S.-Finnish Joint Symposium on Occupational Safety and Health and the Third Annual NIOSH Scientific Symposium. NIOSH and the Institute of Occupational Health in Finland. Scandinavian Journal of Work, Environment and Health. 1981. Volume 7, Supplement 4. 166 pp. Request free single copy from NIOSH.

Contains papers presented by Finnish and American researchers at a U.S.-Finnish Joint Symposium on Occupational Safety and Health in Cincinnati, Ohio, and at the Third Annual NIOSH Scientific Symposium in Detroit, Michigan, which was cosponsored by the United Auto Workers. Subjects of collaboration included general aspects of occupational health, neurotoxicology, reproductive effects, safety, and epidemiology. Bibliography.

Protecting People at Work. A Reader in Occupational Safety and Health. U.S. DOL. 1980. 360 pp. Out of print. Available in major libraries.

Describes occupational hazards and past and current efforts to protect workers on the job. Includes information on Government, non-Government, and international efforts to protect workers.

Prudent Practices for Handling Hazardous Chemicals in Laboratories. National Academy of Sciences. 1981. 291 pp. Available from National Academy Press.

Assesses the full range of hazards encountered in chemistry and life science laboratories and provides recommendations for handling dangerous substances in both ordinary and emergency situations. Includes Safety Data Sheets that describe the chemical, physical, and physiologic properties of 33 hazardous substances in common laboratory use and provides details on the special handling of these substances. Bibliography.

Publications on Toxic Substances. A Descriptive Listing. Interagency Regulatory Liaison Group (CPSC, EPA, FDA, OSHA). 1979. 96 pp. GPO No. 052-011-00226-7. Available from GPO.

> Presents some basic facts about toxic substances. Lists and describes some publications on toxic substances available from four Federal Agencies: FDA, OSHA, EPA, and CPSC. Most of the publications listed are concerned with toxic substances and products commonly found in the home, the workplace, agriculture, and the environment.

Quality Control and Quality Assurance Procedures for Level 1 Health Effects Bioassays. D. Brusick, R. Young, B. Myhr, and D. Jagannath. December 1983. NTIS No. 84-111228. Available from NTIS.

> Describes the role and recommended use of laboratory quality control (QC) and quality assurance (QA) procedures in the Level I biological testing program. The manual covers the role and use of laboratory QA audit samples, test material sampling and processing documentation, protocol steps that require documentation under the Good Laboratory Practice Regulations of FDA, and provides sample forms for meeting documentation requirements. Supplements the IERL-RTP Procedures Manual: Level 1 Environmental Assessment Biological Tests.

Registry of Toxic Effects of Chemical Substances. NIOSH. June 1983. 3 volumes. DHHS (NIOSH) Publ. No. 83-107. GPO No. 017-033-00406-4. Available from NTIS.

> Contains toxicity data abstracted from the scientific literature. Included are name entries that represent different substances with their associated toxicity data and synonyms. In vitro mutation data are also included.

Risk Assessment in the Federal Government: Managing the Process. Committee on the Institutional Means for Assessment of Risks to Public Health, Commission on Life Sciences, National Research Council. 1983. 191 pp. Available from National Academy Press.

> Explores the process of assessing the risk of cancer and other adverse health effects associated with exposure of humans to toxic substances. Discusses the relationship between policy and science. Bibliography.

Selected NIOSH Toxicology Publications. NIOSH. March 1980. 1 p. Request free single copy from NIOSH.

> Lists and annotates selected NIOSH publications on toxicology that can be purchased from GPO or NTIS. Order information included.

Summary of NIOSH Recommendations for Occupational Health Standards. November 1980. NIOSH. 40 pp. Request free single copy from NIOSH.

> Summarizes in tabular form the major environmental and medical recommendations from the NIOSH criteria documents. The table also includes the current Federal standard, the date on which the criteria document was transmitted to OSHA, and the significant health effects considered in the development of the recommendation. Information is included on how to obtain copies of criteria documents and recommended standards.

Summary of the Workshop on Exposure to Environmental Agents, Their Metabolism, and Mechanisms of Toxicity: Research Needs. Task Force on Environmental Cancer and Heart and Lung Disease. August 1981. 55 pp. and appendix. NTIS No. PB82-212895. Request free single copy from Technical Resources, Inc.

> Presents the full text and rationale of 72 research recommendations developed through a consensus of scientific experts at a Workshop on Exposure, Metabolism, and Mechanisms of Toxicity held in January 1981. Contains a compilation of research needs for environmental cancer and heart and lung disease in areas such as epidemiology, exposure quantification and monitoring, metabolism, and disease processes. Both short- and long-term needs are identified in basic and applied environmental disease research.

System for Prevention, Assessment, and Control of Exposure and Health Effects from Hazardous Sites, A. S.P.A.C.E. for Health. J. French and F. Johnson. Center for Environmental Health and Center for Professional Development and Training, CDC. January 1984. 250 pp. Request free single copy from CDC.

> Outlines a systematic approach for state health departments and health professionals to assess health effects from hazardous waste exposures. Discusses 20 chemicals commonly found in waste site areas.

Toxic Chemicals and Public Protection. A Report to the President. Toxic Substances Strategy Committee. May 1980. 187 pp. GPO No. 041-011-00050-5. Available from GPO.

> Summarizes Committee activities, findings, and recommendations and activities of Federal Agencies and other interagency groups. Discusses synergistic effects of multiple exposures and risk assessment.

Update of Publications. Medical and Health Sciences Division Research Report. See RADIATION.

COAL INDUSTRY

Analysis of Job Stress in Coal Mining, An. NIOSH. 1978. 145 pp. DHEW (NIOSH) Publ. No. 77-217. NTIS No. PB-274796. Available from NTIS.

Analyzes data to determine the levels of job stress experienced by coal miners and how this stress is related to their physical and psychological health. Bibliography.

Coal Liquefaction: Recent Findings in Occupational Safety and Health. NIOSH. 1980. 14 pp. DHHS (NIOSH) Publ. No. 80-122. GPO No. 017-033-00363-07. NTIS No. PB81-223422. Available from GPO and NTIS.

Summarizes data from surveys of two coal liquefaction plants and assesses health and safety problems associated with coal liquefaction. Discusses exposure to some known and suspected carcinogens, including PNAs and aromatic amines.

Coal Workers' Pneumoconiosis: Radiology and Pathology. American Lung Association. 1976. 78 slides, 19-minute sound cassette, and 1 script. Contact Chief, Library Service, at local VA medical center.

Discusses for physicians and medical students the diagnosis of coal workers' pneumoconiosis based primarily on chest radiogram findings together with an occupational history. Inhalation of coal mine dust and its deposition in the lungs are described in terms of pathologic and radiologic changes.

Criteria for a Recommended Standard: Occupational Exposures in Coal Gasification Plants. NIOSH. 1978. 206 pp. DHEW (NIOSH) Publ. No. 78-191. GPO No. 017-033-00319-0. NTIS No. PB80-164874. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to coal gasification emissions. Includes recommendations for low-, medium-, or high-BTU gasification and information on health and safety hazards, workplace monitoring and practices, engineering controls, development of standards, and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Coal Tar Products. NIOSH. 1978. 197 pp. DHEW (NIOSH) Publ. No. 78-107. GPO No. 017-033-00272-0. NTIS No. PB-276917. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to coal tar products. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to coal tar products; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Environmental Monitoring Reference Manual for Synthetic Fuels Facilities. D.B. Henschel and J.T. Stemmle. September 1983. NTIS No. PB83-251850. Available from NTIS.

> Assists applicants to the U.S. Synthetic Fuels Corporation (SFC) in developing Environmental Monitoring Plans for the construction and operation of proposed synthetic fuels facilities. The manual covers source and ambient monitoring around coal-, oil shale- and tar sands-based synthetic fuels facilities. The manual is also intended to assist the SFC and environmental agencies in reviewing the monitoring plans.

Health Implications of Coal Related Energy Development: Mining Impacts. M.A. Zanetos, D.A. Savitz, J.C. Warling, and N. Sachs. Health Effects Research Laboratory, EPA. February 1982. 276 pp. NTIS No. PB82-109836. Available from NTIS.

> Presents a method for prospective epidemiologic analysis of the potential human health effects associated with the development of western coal sites. Particular emphasis is placed on potential human health effects related to mining and mining effluents that may enter drinking water supplies.

Mining Publications Available from NIOSH. NIOSH. October 1980. 4 pp. Request free single copy from NIOSH.

> Lists and annotates selected NIOSH publications on mining that can be purchased from GPO and NTIS. Order information included.

Occupational Hazard Assessment: Coal Liquefaction. NIOSH. March 1981.
Volume 1. Summary. 28 pp. DHHS (NIOSH) Publ. No. 81-131. GPO. No. 017-033-00390-4. NTIS No. PB81-242877. Available from GPO and NTIS.

> Summarizes data on the potential adverse health effects and hazards of both experimental and commercial coal liquefaction plants. Contains information on engineering controls, emergency plans and procedures. Bibliography.

Volume II. Assessment. 171 pp. DHHS (NIOSH) Publ. No. 81-132. GPO No. 017-033-00391-2. NTIS No. PB81-242885. Available from GPO and NTIS.

> Critical review of the technical and scientific information available on adverse health effects of coal liquefaction. Bibliography.

Potential Health Hazards Involved with Coal Gasification. NIOSH. 1979. 194 pp. DHEW Publ. No. 79-113. NTIS No. PB80-164882. Available from NTIS.

> Summarizes potential contaminants that may be generated in coal conversion facilities and reviews relevant toxicologic and epidemiologic information on the more important substances.

Prevalence of Middle Ear Disorders in Coal Miners. N.T. Hopkinson. June 1981. Division of Biomedical and Behavioral Sciences, NIOSH. 39 pp. DHHS (NIOSH) Publ. No. 81-101. GPO No. 017-03300384-0. NTIS No. PB81-237844. Request free single copy from NIOSH.

> Presents results of a study of the prevalence of middle and external ear disorders in coal miners who work underground. Otoscopic examinations, pure tone air- and bone-conduction audiometry tests, and impedance tests were administered to 350 underground miners and 150 workers in industries not associated with mining. The study was conducted at a hospital otolaryngology/audiology clinic. Bibliography.

Proceedings of a Workshop on the Use of Diesel Equipment in Underground Coal Mines. September 19-23, 1977. Division of Respiratory Disease Studies, NIOSH. October 1982. 226 pp. DHHS (NIOSH) Publ. No. 82-122. Request free single copy from NIOSH.

> Presents the proceedings and findings of an international workshop sponsored by NIOSH to explore the health and safety issues associated with using diesel equipment in underground coal mines. Also contains information on emissions and control technology, environmental characterization and pollution interaction, health effects, and safety and productivity. Bibliography.

Selected NIOSH Benzene Publications. See CHEMICAL HAZARDS--Benzene.

Survey of Hearing Loss in the Coal Mining Industry. NIOSH. 1977. 141 pp. DHEW (NIOSH) Publ. No. 76-172. NTIS No. PB-271811. Available from NTIS.

> Presents results of a hearing loss study in the underground coal mining industry.

Trace-Element Geochemistry of Coal Resource Development Related to Environmental Quality and Health. National Academy of Sciences. 1980. 153 pp. Available from National Academy Press.

> Reviews and documents relationship between trace element chemicals of coal resource development and environmental quality and health. Several aspects of the problem relating to emission sources and pollutant pathways are discussed. Bibliography.

CURRICULAR INSTRUCTION MODULES

Clinical Simulations in Health Hazards of the Workplace. NIOSH Grant. 1982. Available from A.J. Finestone, M.D., Associate Dean, Continuing Medical Education, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.

> The following clinical simulations are designed to inform physicians not specifically trained in occupational medicine about the health hazards of the workplace: Case 1. The Management of Pneumoconiosis; Case 2. The Management of Chronic Pain Problems. Each simulation presents a case study with a series of decision points to allow the physician to make diagnostic and therapeutic choices. Meets the criteria for one credit hour in Category 1 for the Physician's Recognition Award of the AMA.

Courses in Cancer Prevention. NCI Contract. 1979-1982. See CANCER for description and availability of individual courses.

> The following courses have been developed for teaching medical students, residents, nurse practitioners, and physician assistants in a format that can be easily used by other schools and updated as needed: 1) Aspects of Prevention: Focusing on Cancer; 2) Cancer: Etiology, Pathophysiology and Prevention; 3) Cancer Prevention; 4) Cancer Prevention: A Course for Nurse Practitioners; 5) Cancer Prevention for Clinicians; 6) Cancer Prevention for Physician Assistants; 7) A Course on Cancer Prevention for Physician Assistants; 8) Environmental and Occupational Health: Aspects in Disease Prevention; 9) Focus on Cancer: Prevention and Early Detection; 10) Topics in Cancer Prevention: A Multidisciplinary, Modular Curriculum; 11) The UCLA Student-Directed Course in Cancer Prevention; 12) The Wayne State University Curriculum Series on Disease Prevention Focusing on Cancer.

Health Promotion and Disease Prevention: A Curriculum. HRSA Grant. September 1981. 6 pp. Available from G. Yonuschot, Ph.D., New England College of Osteopathic Medicine, Biddeford, MA 04005.

> Provides information for clinicians concerning salient points of health promotion and disease prevention.

Instructional Packages. HRSA Contract. 1979-1983. Project Module. Available from the K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> The following instructional packages have been developed by the ACOSH for teaching clinicians: 1) The Occupational Environmental History; 2) Hazards to Hospital Workers; 3) Asbestos; 4) Occupational Stress; 5) Chemical Carcinogens; 6) Hazards to

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Women in the Workplace; 7) Workers Compensation; 8) Reproductive Hazards; 9) Hazards of Radiation at Work and in the Environment; 10) Hazards to Agricultural Workers; 11) Organic Solvents; 12) Occupational Dermatoses; 13) Community Air Pollution; 14) Occupational Respiratory Disease; 15) Copper Production: Processes and Attendant Hazards; 16) Community Diagnosis: The Industrial and Environmental Profile; 17) Ethical Dilemmas Facing Clinicians Who Provide Health Services to Workers; 18) Physician Evaluation of Impairment/Disability; 19) Office Screening of Occupational Illness; 20) Physical Hazards I: Heat and Cold; 21) Physical Hazards II: Noise and Vibration; 22) Alcohol and Work.

Instructional Packages. HRSA Grant. 1980. Environmental Health Curriculum Project. Available from F.M. Bishop, Ph.D., Professor and Chairman, Community Medicine Department, The University of Alabama in Huntsville, School of Primary Medical Care, 201 Governors Drive, SW., Huntsville, AL 35801.

The following instructional packages have been developed by the Community Medicine Department for teaching clinicians: 1) Occupational Health History; 2) Reproductive Hazards in the Workplace; 3) Occupational Dermatoses; 4) Vocational Rehabilitation and the Primary Care Physician; and 5) Work Related Stress, Recognition and Intervention.

Summary of the Workshop on Environmental Education Needs of Health Professionals. Task Force on Environmental Cancer and Heart and Lung Disease. December 1979. 160 pp. and Recommendations on Environmental and Occupational Education of Health Professionals. Task Force on Environmental Cancer and Heart and Lung Disease. April 1980. 21 pp. Request free single copy from Technical Resources, Inc.

Summarizes the proceedings and presents the recommendations of a 2-day workshop sponsored by the interagency Task Force on Environmental Cancer and Heart and Lung Disease. Identifies the environmental education needs of health professionals. Reports on previous and current activities and describes the data generated from the workshop. Includes specific recommendations addressing curriculum, faculty, students, continuing education, and research components.

Symposium on Occupational Safety Research and Education: A Dialogue Between Two Communities. February 1982. NIOSH. 364 pp. DHHS (NIOSH) No. 82-103. Request free single copy from NIOSH.

Includes papers presented at a NIOSH-sponsored symposium on occupational safety research and curricula development. Bibliography.

Teacher Student Reference Manual, A. HRSA Grant. September 1980. Available from G.T. Hunter, M.D., Department of Community Health and Family Practice, Howard University College of Medicine, 520 W Street, NW., Washington, DC 20059.

> Contains instructional material and bibliographies on occupational and environmental topics: occupational history-taking, lung diseases, cancer, reproductive problems, neurotoxicology, liver disease, hazardous substances, ethical and social issues, concepts of disease prevention, transmission of biologic disease agents through water and food, chemical and physical agents of disease, and air pollution.

Teenage Health Teaching Modules. Education Development Center, Inc., CDC. Request free single copy from CDC.

An Introduction to the Program. Field Test Edition. 1981. 32 pp.

Acting to Create a Healthy Environment. Field Test Edition. 1981. 71 pp.

Improving Health and Safety in the Workplace. Field Test Edition. 1982. 71 pp.

> Presents an innovative approach to school health education in grades 8-12. Includes information on training of staff, development of curricula, and a dissemination strategy for further extension of the program. The modular approach permits flexibility in that each community may choose by subject the modules to use in schools. The modules can be used in a variety of courses. Bibliography.

DERMATOSIS

Occupational Dermatoses. HRSA Contract. May 1981. 32 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information for clinicians concerning related physical, mechanical, chemical and biologic hazards in the environment that are capable of inciting an inflammatory response in the skin. Special attention is given to chemical factors associated with hazards, etiology, and appearance. Includes learning objectives and bibliography.

Occupational Dermatoses. HRSA Grant. June 1981. 126 pp. Available from F.M. Bishop, Ph.D., Professor and Chairman, Community Medicine Department, The University of Alabama in Huntsville, School of Primary Medical Care, 201 Governors Drive, SW., Huntsville, AL 35801.

> Self-instructional package including case study. Designed for clinicians.

Occupational Dermatoses. NIOSH and Institute for Dermatologic Communications and Education. 1972. 50 slides, 30-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

> Contains pictures of many skin eruptions and identifies their common occupational causes. Presents approaches for the recognition, control, and prevention of skin diseases of industrial and nonindustrial occupations.

Safe Use of Low Energy X-Rays in the Treatment of Skin Cancer. See RADIATION.

Skin Cancer Education Materials. Selected Annotations. See CANCER.

Survival for Melanoma of the Skin and Cancers of the Eye, Brain, and Cranial Meninges, Thyroid, Bone, and Connective Tissue. See CANCER.

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DIET AND NUTRITION

Aflatoxin Contamination of Foods. See LITERATURE SEARCHES--National Technical Information Service.

Aflatoxin Determination in Foods. See LITERATURE SEARCHES--National Technical Information Service.

Cancer Patient, The. Hospital Division, Abbott Laboratories. 1979. 24-minute cassette and guide. Contact Chief, Library Service, at local VA medical center.

> Discusses the goal of maintaining adequate nutrition in the cancer patient so that the assigned program of antineoplastic therapy can be successfully completed.

Cholesterol, Diet, and Heart Disease. Clinical Center, NIH. 1980. 60-minute cassette and booklet. Contact Chief, Library Service, at local VA medical center.

> Lists the factors that contribute to an increased risk of heart attacks and examines new findings on the role of cholesterol in both increasing and decreasing the risk. Describes how cholesterol affects the flow of blood through the body and includes recommendations concerning safe levels of cholesterol and fat in the diet.

Cholesterol in Foods and Its Effects on Animals and Humans. See LITERATURE SEARCHES--National Technical Information Service.

Developing Countries: Human Nutrition. See LITERATURE SEARCHES--National Technical Information Service.

Diet and Cancer: Etiology and Prevention. See LITERATURE SEARCHES--National Library of Medicine.

Diet and Hyperactivity. See LITERATURE SEARCHES--National Library of Medicine.

Diet and Your Heart. Medfact, Inc. 1978. 10-minute videocassette. Contact Chief, Library Service, at local VA medical center.

> Explains coronary heart disease and its association with cholesterol, unsaturated fats, and saturated fats.

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Diet, Nutrition, and Cancer. Committee on Diet, Nutrition, and Cancer, Assembly of Life Sciences, National Academy of Sciences. 1982. 448 pp. Available from National Academy Press.

> Reviews the current information and state of knowledge on diet/ nutrition and the incidence of cancer. Contains recommendations related to dietary components, nutritional factors, and the incidence of cancer. Bibliography.

Diet, Nutrition, and Cancer Program Status Report. NCI. October 1981. 368 pp. NIH Publ. No. 82-1992. NTIS No. PB83-141275. Available from NTIS.

> Discusses the activities and future plans of the Diet, Nutrition, and Cancer Program. Includes descriptions of projects sponsored by DNCP.

Dietary Fat and Heart Disease. Pennsylvania State University. 1976. 11-minute videocassette. Contact Chief, Library Service, at local VA medical center.

> Discusses the correlation between high cholesterol levels and heart disease. Explores cholesterol in relation to body use, food content, and types of fat.

Dietary Guidelines for Americans Developed by the U.S. Department of Agriculture and the U.S. Department of H.H.S. DOA and DHHS. 1980. 20 pp. Request free single copy from the National Health Information Clearinghouse.

> Contains a set of seven dietary recommendations intended for healthy people. Includes information on fat, starch, fiber, sodium, sugar, alcohol, and other aspects of nutrition and health. Intended to assist the physician in patient education.

Elemental Diet. See LITERATURE SEARCHES--National Library of Medicine.

Food and Drug Interaction. See LITERATURE SEARCHES--National Library of Medicine.

Heart to Heart. A Manual on Nutrition Counseling for the Reduction of Cardiovascular Disease Risk Factors. See CARDIOVASCULAR SYSTEM.

Hypertension--Role of Body Weight, Sodium, Food Habits, and Weight Reduction. See LITERATURE SEARCHES--National Library of Medicine.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 22. Some Non-Nutritive Sweetening Agents. See CHEMICAL HAZARDS--Overviews.

Nitrosamines as Related to Food. See LITERATURE SEARCHES--National Technical Information Service.

Nutrition. A Guide to Sources of Information. J. Hunt. Reference Section, NLM. 1982. 16 pp. Request free single copy from NLM.

Contains a selection of reference works to introduce the reader who is unfamiliar with nutrition to general information sources in the field. Includes abstracts, indexes, bibliographies, major textbooks, journals, directories, and other pertinent reference sources.

Nutrition and the Elderly. See LITERATURE SEARCHES--National Library of Medicine.

Nutritional Components in the Care of the Patient with Congestive Heart Failure. L. Golden and D. Paxnia. Communications in Learning, Inc. 1976. 13 slides, 37-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

Presents dietary recommendations for patients in the acute and rehabilitative phases of congestive heart failure. Intended for physicians and dietitians.

Pesticide Residues in Foods. See LITERATURE SEARCHES--National Technical Information Service.

Pesticide Residues in Milk and Other Dairy Products. See LITERATURE SEARCHES--National Technical Information Service.

Preventive Medicine: Diet and Nutrition. See LITERATURE SEARCHES--National Technical Information Service.

Questions About Weight, Salt, and HBP. NHLBI. 1980. Reprinted 1982. 8 pp. NIH Publ. No. 82-1459. Request free single copy from NHLBI.

Discusses the relationship between diet and high blood pressure. Intended as an educational document for the patient with high blood pressure or the general public.

Trace Minerals: Zinc and Chromium. D. Van Campen. Communications in Learning, Inc. 1976. 12 slides, 31-minute sound cassette, and handout. Contact Chief, Library Service, at local VA medical center.

Discusses the possibility that certain population groups in the United States might benefit from zinc and chromium dietary supplements.

Update on Dietary Fiber. P. Van Soest. Communications in Learning, Inc. 1978. 21 slides, 27-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

Provides information for dietitians and physicians on vegetable fiber in the diet.

Zinc in Foods. See LITERATURE SEARCHES--National Technical Information Service.

DISEASE PREVENTION AND HEALTH PROMOTION

Aspects of Prevention: Focusing on Cancer. See CANCER.

At the Edge of Life: An Introduction to Viruses. E.B. Wilson. NIAID. August 1980. 75 pp. NIH Publ. No. 80-433. Available from NIAID.

> Highlights the medical importance of virology research and stresses the importance of viruses in basic research on life processes. Presents evidence for the need to develop antiviral drugs and new vaccines.

Audiovisual Aids for High Blood Pressure Education. NHLBI. October 1977. 195 pp. NIH Publ. No. 80-1663. Request free single copy from NHLBI.

> Lists films, filmstrips, videocassettes, audiocassettes, and slides produced by corporations, associations, agencies, services, and other resource organizations on high blood pressure education, with addresses for further information on obtaining these materials.

Audiovisual Resources in Occupational Safety and Health. Division of Training and Manpower Development, NIOSH. October 1981. 90 pp. DHHS (NIOSH) Publ. No. 82-102. NTIS No. PB83-105395. Request free single copy from NIOSH.

> Lists audiovisual training materials available on occupational safety and health. Includes information on purchasing, renting, or borrowing these materials.

Cancer Detectives of Lin Xian, The. See CANCER.

Cancer: Etiology, Pathophysiology and Prevention. See CANCER.

Cancer Prevention. See CANCER.

Cancer Prevention: A Course for Nurse Practitioners. See CANCER.

Cancer Prevention for Clinicians. See CANCER.

Cancer Prevention for Physician Assistants. See CANCER.

Cost of Worksite Hypertension Treatment. National High Blood Pressure Education Program, NHLBI. 1980. 46 pp. Request free single copy from NHLBI.

> Presents a retrospective cost analysis of a network of hypertension clinics serving a targeted employee population.

Course on Cancer Prevention for Physician Assistants, A. See CANCER.

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Critical Patient Behaviors in High Blood Pressure Control. J. McCombs, J. Fink, and P. Bandy. July-August 1980. Cardiovascular Nursing. Vol. 16, No. 4. Reprinted by the National High Blood Pressure Education Program, NHLBI. Request free single copy from NHLBI.

> Defines behaviors for hypertensive patients critical to their achieving therapeutic control and assuming active responsibility for their own care. Bibliography.

Current Problems of Medicine and the Law: Number 3. Patient Injury Prevention. See LEGAL AND ETHICAL DILEMMAS.

Diagnosis and Management of Hypertension. A Nationwide Survey of Physicians' Knowledge, Attitudes, and Reported Behavior. NHLBI. 1979. 136 pp. DHEW Publ. No. (NIH) 79-1056. NTIS No. PB-288216/5. Request free single copy from NHLBI.

> Contains the statistical results of a survey conducted by NHLBI to assess physicians' attitudes concerning hypertension.

Directory of Community High Blood Pressure Control Activities. NHLBI and Merck Sharp & Dohme. 1977. 366 pp. Second Ed. DHEW Publ. No. (NIH) 77-1243. Request free single copy from NHLBI.

> Indicates the types of activities engaged in by high blood pressure control organizations across the country. Listing is alphabetical by state and includes organizations planning future activities.

Environmental and Occupational Health: Aspects in Disease Prevention. See CANCER.

Environmental Health. A Study of the Issues in Locating, Assessing, and Treating Individuals Exposed to Hazardous Substances. Office of Health Research, Statistics, and Technology, NCHS. 1980. 46 pp. DHHS Publ. No. (PHS) 81-1275. GPO No. 017-022-00725-8. Request free single copy from NCHS.

> Contains a study of the issues in establishing a Federal system to assist in locating individuals who have been or may have been exposed to hazardous substances, determining the effects of such exposures on their health, and assuring that they obtain access to appropriate medical care. This study spans a broad range of environmental health concerns--from research aimed at identifying populations or individuals exposed or potentially exposed to hazardous substances to disease detection and the referral of individuals to needed sources of health care.

Evaluating Health Promotion in the Workplace. Conference summary developed by the Institute of Medicine. 1981. 38 pp. Available from National Academy Press.

Contains papers from the conference on evaluating health promotion in the workplace. Topics discussed include methodologies for data collection and validation, cost of evaluation, unresolved issues and themes, and future directions.

Focus on Cancer: Prevention and Early Detection. See CANCER.

Guide to Available Resources: An Annotated Review. HRSA Grant. September 1981. 40 pp. Available from D.J. Worth, M.D., Department of Community Health, Tufts University School of Medicine, Boston, MA 02111.

Contains an annotated review of film and text resource materials to assist clinicians in recognizing, treating, and preventing occupational/environmental diseases.

Handbook for Improving High Blood Pressure Control in the Community. NHLBI. 1978. 105 pp. DHEW Publ. No. (NIH) 78-1086. Request free single copy from NHLBI.

Discusses the planning and implementing of high blood pressure control activities. Organized to help the reader define the action plan and to convey the message to those participating in the process. Contains appendixes that list available resources and services.

Health and Safety in the School Environment. A Manual of Recommended Practice. CDC. September 1978. 86 pp. HEW Publ. No. (CDC) 78-8368. Request free single copy from CDC.

Discusses health and safety in the school's physical environment and provides basic environmental criteria by which existing or planned facilities can be evaluated. Bibliography.

Health Conditions in the Americas, 1973-1976. Pan American Health Organization, Regional Office of the World Health Organization. 1978. 336 pp. No. 364. Available from PAHO.

Contains the seventh of PAHO's reports on health conditions in the Americas, published every 4 years in connection with the Pan American Sanitary Conference. Subjects covered are population, vital statistics, communicable diseases, health services, hospital services, environmental health, and human resources. Covers half the period of the Ten-Year Health Plan for the Americas, assesses progress toward the goals set in that Plan, and points out areas where greater efforts are needed.

Health Conditions in the Americas, 1977-1980. Pan American Health Organization, Regional Office of the World Health Organization. 1982. 398 pp. No. 427. Available from PAHO.

Contains the eighth report on health conditions in the Americas, prepared for presentation at the Pan American Sanitary Conference. Outlines goals of the Ten-Year Health Plan for the Americas (1971-1980) and evaluates progress made towards the goals. Presents current demographic and socioeconomic data; health status measures for the total population and for special population groups; and information on human resources, use of health services, development of health infrastructure, and environmental health. Annexes consist of statistical data on mortality by age groups, notified cases of disease, hospitals, immunization, and water supply and sewerage.

Health Education Addresses Presented at the IX International Conference on Health Education. Pan American Health Organization, Regional Office of the World Health Organization. 1978. 66 pp. No. 360. Available from PAHO.

Presents papers given at the meeting held in Ottawa, Canada, in 1976. Subjects include the Canadian experience in health education, community participation in health services, health policy, major changes of attitude toward health problems, problems of health education, solving health problems in a free society, and environmental health education.

Health Promotion and Disease Prevention: A Curriculum. See CURRICULAR INSTRUCTION MODULES.

Health Risk Appraisal General Information Package. Center for Health Promotion and Education, CDC. 1981. Request free single copy from CDC.

Contains sample questionnaires and printouts from CDC's version of a health risk appraisal, general description of CDC's own employee health appraisal program, and a list of other health risk appraisal providers. In addition, two publications are included, an introduction to health risk appraisals and an interpretation guide.

Health Risk Appraisal Technical Information Package. Center for Health Promotion and Education, CDC. 1981. Request free single copy from CDC.

Contains several technical articles and references to articles relating to health risk appraisal (HRA). Provides information on the analysis of HRA data and discusses HRA reliability and potential of promoting health. Bibliography.

Health Risk Appraisals: An Inventory. Office of Disease Prevention and Health Promotion, PHS. 1981. Request free single copy from the National Health Information Clearinghouse.

A listing of more than 25 health risk appraisal tools that can be used at the worksite.

Health United States and Prevention Profile. NCHS. December 1983. 394 pp. DHHS Publ. No. (PHS) 84-1232. GPO No. 017-022-00831-9. Available from GPO.

Reports the statistical trends in the health status of the Nation, emphasizing trends and comparisons over time. Part 1 includes 12 analytic articles on subjects of current interest in the health field and 87 detailed tables on health status and determinants. Part 2 is the Prevention Profile submitted by the Secretary, DHHS, as an integral part of the Department's health promotion efforts. Provides descriptions of the data sources and a glossary of terms. Eighth annual report.

Healthy People. The Surgeon General's Report on Health Promotion and Disease Prevention. Office of the Assistant Secretary for Health and Surgeon General, PHS. 1979. 177 pp. DHEW(PHS) Publ. No. 79-55071. GPO No. 017-001-00416-2. NTIS No. HRP-0030741/3. Available from GPO and NTIS.

Describes accomplishments in prevention and identifies the major health problems in the United States. Lists five public health goals, oriented by major age groups, for attainment by 1990.

High Blood Pressure Control in the Work Setting: Issues, Models, Resources. Proceedings of the National Conference on High Blood Pressure Control. Merck Sharp & Dohme. October 14, 1976. 102 pp. Request free single copy from NHLBI.

Contains the proceedings of a Conference on High Blood Pressure Control in the Work Setting sponsored by the National High Blood Pressure Education Program, Citizens for the Treatment of High Blood Pressure, Inc., and Merck Sharp & Dohme. Presents concerns and suggestions for approaching hypertension in the workplace.

Human Health and the Environment. Some Research Needs. Report of the Second Task Force for Research Planning in Environmental Health Science, NIEHS. 1977. 468 pp. DHEW Publ. No. NIH 77-1277. GPO No. 017-051-00003-2. Request free single copy from NIEHS.

Contains the Report of the Second Task Force for Research Planning in Environmental Health Science. Identifies, reviews, and evaluates the research needs in environmental health. Recommendations are presented at the end of each section. Bibliography.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 27. Some Aromatic Amines, Anthraquinones, and Nitroso Compounds, and Inorganic Fluorides Used in Drinking-Water and Dental Preparations. See CHEMICAL HAZARDS--Overviews.

Implications of Cost-Effectiveness Analysis of Medical Technology, The. Background Paper #2. Case Studies of Medical Technologies. Case Study #7. Allocating Costs and Benefits in Disease Prevention Programs: An Application to Cervical Cancer Screening. See HEALTH SERVICES.

Index of Symptoms of Industrial Diseases. B.A. Fay and C.E. Billings. NIOSH. April 1980. 50 pp. Request free single copy from NIOSH. See also Occupational Diseases: A Guide to Their Recognition in DISEASE PREVENTION AND HEALTH PROMOTION.

This guide names symptoms and lists exposures that could cause each symptom. Page numbers are keyed to Occupational Diseases: A Guide to Their Recognition.

National Conference on Health Promotion Programs in Occupational Settings. Office of Disease Prevention and Health Promotion. 11 papers. NTIS No. HRP-0030860. Available from NTIS.

Describes the state-of-the-art of worksite health promotion programs covering hypertension, weight and nutrition, alcohol and drug abuse, smoking cessation, stress management, and physical activity and the cost effectiveness of such programs.

Occupational Diseases: A Guide to Their Recognition. M.M. Key et al., eds. NIOSH. June 1977. 608 pp. DHEW (NIOSH) Publ. No. 77-181. NTIS No. PB-274813/5. Request free single copy from NIOSH. See also Index of Symptoms of Industrial Diseases in DISEASE PREVENTION AND HEALTH PROMOTION.

Discusses the recognition of occupational diseases through identification of occupational hazards. Covers chemical, physical and biologic hazards, routes of entry and modes of action, dermatoses, airway disease, plant and wood hazards, chemical carcinogens, pesticides, and sources of consultation. Bibliography.

Occupational Health: Recognizing and Preventing Work-Related Disease. HRSA Grant. September 1981. 526 pp. and appendixes. Available from B.S. Levy, M.D., Department of Family and Community Medicine, University of Massachusetts Medical School, Worcester, MA 01605.

Focuses on environmental and occupational determinants of disease and methods of disease prevention. Presents information on protecting the health of workers. Bibliography.

Pretesting in Health Communications Methods: Examples, and Resources for Improving Health Messages and Materials. Office of Cancer Communications, NCI. Revised November 1980. 46 pp. NIH Publ. No. 81-1493. Request free single copy from NCI.

Describes a variety of techniques used by the Office of Cancer Communications and other health organizations in pretesting communication materials. Discusses the principles of pretesting, how pretesting can be incorporated into materials development, and the most commonly used methods. Describes resources needed to conduct pretesting research. Includes glossary of pretesting terms. Bibliography.

Prevention '80. Office of Disease Prevention and Health Promotion, PHS. 1981. 143 pp. DHHS (PHS) Publ. No. 81-50157. GPO No. 017-001-00433-2. Request free single copy from the National Health Information Clearinghouse.

Describes Federal disease prevention activities, reviews the major accomplishments of the past year, and establishes a mechanism for tracking progress. Designed to facilitate the efforts of health professionals and program managers engaged in prevention activities. Bibliography.

Prevention '82. Office of Disease Prevention and Health Promotion, PHS. 1982. 168 pp. DHHS (PHS) Publ. No. 82-50157. GPO No. 017-001-00444-8. Request free single copy from the National Health Information Clearinghouse.

Summarizes some of the major developments in the areas of health promotion and disease prevention. Reviews the Federal contribution to achievement of the Nation's prevention objectives. Bibliography.

Prevention and Medical Practice: The Role of Undergraduate Medical Education. Report on a National Symposium. May-June 1982. Public Health Reports. Volume 97, No. 3. pp. 195-243.

Presents papers and recommendations from a symposium jointly sponsored by the Office of Disease Prevention and Health Promotion, the Division of Medicine, Health Resources Administration, and a number of medical education and specialty organizations. The symposium was held October 5-6, 1981, at the National Library of Medicine. A major part of the symposium was devoted to work group discussion of physician roles in health promotion and disease prevention and their implications for medical education. Bibliography.

Preventive Medicine: Cancer and Cardiovascular Diseases. See *LITERATURE SEARCHES--National Technical Information Service*.

Preventive Medicine: Costs. See *LITERATURE SEARCHES--National Technical Information Service*.

Preventive Medicine: Diet and Nutrition. See *LITERATURE SEARCHES--National Technical Information Service*.

Preventive Medicine: Hazardous Materials Exposure and Public Health. See *LITERATURE SEARCHES--National Technical Information Service*.

Preventive Medicine: Major Studies. See *LITERATURE SEARCHES--National Technical Information Service*.

Primer in Occupational and Environmental Health for the Family Physician. See *HEALTH SERVICES*.

Promoting Health/Preventing Disease. Objectives for the Nation. Office of the Assistant Secretary for Health and Surgeon General, PHS. Fall 1980. 102 pp. GPO No. 017-001-00435-9. NTIS No. HRP-0903067/7. Available from GPO and NTIS.

Contains specific and quantifiable objectives for 15 priority areas that are essential to achieving the national health goals set for 1990.

Public Health Service Implementation Plans for Attaining the Objectives for the Nation. Supplement to the September-October 1983 issue of *Public Health Reports*.

Presents a series of implementation plans that embody the steps the Public Health Service intends to take to attain the goals listed in *Objectives for the Nation*.

Publication Catalog of the U.S. Department of Health and Human Services. Office of the Secretary, Assistant Secretary for Public Affairs, DHHS. January 1982. 200 pp. Catalog No. HE1.18/3:982. GPO No. 017-000-00241-4. NTIS No. PB83-133223. Request free single copy from the Office of the DHHS Secretary.

Contains information on HHS regional offices, an organization chart, and major sources of HHS publications and information, with addresses and phone numbers. Catalog is arranged by Agency, author, title, subject, series/report, stock number, classification number, and includes a keyword title index.

Recognition and Evaluation of Occupational Health Problems. See HEALTH SERVICES.

Selected NIOSH Epidemiology and Related Publications. NIOSH. October 1981. 8 pp. Request free single copy from NIOSH.

> Lists and annotates NIOSH publications on epidemiology that can be purchased from GPO or NTIS. Order information included.

Short-Term Screening Test for Quick Responses to Pollutants Where Health Effects Data Are Lacking. J.G. Drummond et al. Health Effects Research Laboratory, EPA. August 1982. 41 pp. NTIS No. PB82-234303. Available from NTIS.

> Describes the correlation of various health effects parameters to determine the most sensitive indicators of toxic effects of exposure to three particulate air pollutants: cupric sulfate, aluminum sulfate, and aluminum ammonium sulfate. The health effects parameters included changes in resistance to respiratory infection; pulmonary bactericidal activity; number, type, viability, and ATP content of free pulmonary cells; tracheal ciliary beating frequency and morphology; and morphology of the pulmonary system as observed by scanning electron microscopy.

Spontaneous Hypertension: Its Pathogenesis and Complications. NHLBI. 1977. 500 pp. DHEW Publ. No. (NIH) 77-1179. GPO No. 017-043-00077-3. Request free single copy from NHLBI.

> Consists of manuscripts from participants of the Second International Symposium on the Spontaneously Hypertensive Rat held in 1976 and sponsored by the NHLBI, the Japan Society for the Promotion of Science, and the National Science Foundation. Bibliography.

Strategies for Promoting Health for Specific Populations. Office of Disease Prevention and Health Promotion, Office of Health Information, Health Promotion and Physical Fitness and Sports Medicine, PHS. 1981. 53 pp. DHHS(PHS) Publ. No. 81-50169. GPO No. 017-001-00438-3. Request free single copy from the National Health Information Clearinghouse.

> Examines the health promotion, priorities, and concerns of minorities and special populations. Includes recommendations on reaching Asian/Pacific Americans, Black Americans, Hispanic Americans, elderly Americans, and American Indians.

Topics in Cancer Prevention: A Multidisciplinary, Modular Curriculum. See CANCER.

Toward a Healthy Community: A Model Fair. Office of Disease Prevention and Health Promotion, Office of Health Information, Health Promotion and Physical Fitness and Sports Medicine, PHS. 1980. 18 pp. DHHS (PHS) 80-50112. GPO No. 017-001-00437-5. Request free single copy from the National Health Information Clearinghouse.

> Describes Healthworks 1979, a 3-day model health fair sponsored by the DHEW. Explains why and how the fair was produced, describes events, and evaluates the fair. An appendix gives details on each exhibit.

Toward a Healthy Community: Organizing Events. Office of Disease Prevention and Health Promotion, Office of Health Information, Health Promotion and Physical Fitness and Sports Medicine, PHS. 1980. 37 pp. DHHS (PHS) 80-50112. GPO No. 017-001-00438-3. Request free single copy from the National Health Information Clearinghouse.

> Discusses the reasons and importance of health promotion initiatives at the community level. Presents a model for organizing community health promotion events, with health fairs cited frequently as examples. Appendixes include a community support questionnaire, a health practices questionnaire, and a community analysis interview schedule.

UCLA Student-Directed Course in Cancer Prevention, The. See CANCER.

Wayne State University Curriculum Series on Disease Prevention Focusing on Cancer, The. See CANCER.

FOOD ADDITIVES

Agar. See CANCER for carcinogenesis bioassay information.

Allyl isothiocyanate. See CANCER for carcinogenesis bioassay information.

Butylated hydroxytoluene (BHT). See CANCER for carcinogenesis bioassay information.

Caffeine: Biochemical and Physiological Effects. See LITERATURE SEARCHES--National Technical Information Service.

Caffeine in Food and Beverages. See LITERATURE SEARCHES--National Technical Information Service.

Cancer Testing Technology and Saccharin. See CANCER.

Cinnamyl anthranilate. See CANCER for carcinogenesis bioassay information.

Ethylenediaminetetraacetic acid (EDTA). See CANCER for carcinogenesis bioassay information.

FD&C Yellow No. 6. See CANCER for carcinogenesis bioassay information.

Food Additives. See LITERATURE SEARCHES--National Technical Information Service.

Food Chemicals Codex. National Academy of Sciences. 1981. Third edition. 766 pp. Available from National Academy Press.

> Contains information on the quality and purity of food-grade substances. Provides revised and updated information on standards of chemical purity and methods for testing the purity level of 663 substances included in earlier editions, plus 113 completely new monographs. Covers additives and food processing aids, such as dextrose and fructose.

GRAS (Generally Recognized as Safe) Food Ingredients. See LITERATURE SEARCHES--National Technical Information Service.

Guar gum. See CANCER for carcinogenesis bioassay information.

Gum arabic. See CANCER for carcinogenesis bioassay information.

Health Effects of Nitrate, Nitrite, and N-Nitroso Compounds, The. National Academy of Sciences. 1981. 544 pp. Available from National Academy Press.

> Reviews the risks associated with the presence of natural and added nitrate and nitrite in food. Includes information on the chemistry of these substances, their use in foods, their environmental distribution, and estimates of their risks to human health. Bibliography.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. See CHEMICAL HAZARDS--Overviews.

- Volume 22. Some Non-Nutritive Sweetening Agents.
- Volume 31. Some Food Additives, Feed Additives, and Naturally Occurring Substances.

Locust bean gum. See CANCER for carcinogenesis bioassay information.

dl-Menthol. See CANCER for carcinogenesis bioassay information.

3-Nitropropionic acid. See CANCER for carcinogenesis bioassay information.

Propyl gallate. See CANCER for carcinogenesis bioassay information.

Stannous chloride. See CANCER for carcinogenesis bioassay information.

Titanium dioxide. See CANCER for carcinogenesis bioassay information.

Toxicity of Food Additives (Excluding Antioxidants). See LITERATURE SEARCHES--National Technical Information Service.

Toxicity of Food Additives with Antioxidant Properties. See LITERATURE SEARCHES--National Technical Information Service.

Toxicological Principles for the Safety Assessment of Direct Food Additives and Color Additives Used in Food. Bureau of Foods, FDA. 1982. 199 pp. NTIS No. PB83-170696. Request free single copy from FDA.

> Contains FDA scientific criteria used in establishing the safety of new food additives and in ensuring the continued safety of such products. Contains discussions on several issues, including the following: the use of exposure information and molecular structure information; the proper role for short-term tests for carcinogenic potential; construction of a tiered system for information development; use of data from previously performed toxicologic studies; guidelines for developing safety information on new additives; and the use of priority-setting in managing risks from all additives. Bibliography.

2,4,5-Trimethylaniline. See CANCER for carcinogenesis bioassay information.

L-Tryptophan. See CANCER for carcinogenesis bioassay information.

HAZARDS TO HOSPITAL WORKERS

Criteria for a Recommended Standard: Occupational Exposure to Waste Anesthetic Gases and Vapors. NIOSH. 1977. 204 pp. DHEW (NIOSH) Publ. No. 77-140. GPO No. 017-033-00208-8. NTIS No. PB-274238. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to waste anesthetic gases and vapors. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to waste anesthetic gases and vapors; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Effect of Trace Concentration of Anesthetic Gases on Behavioral Performance of Operating Room Personnel. NIOSH. 1976. 39 pp. DHEW (NIOSH) Publ. No. 76-169. NTIS No. PB-266494. Available from NTIS.

> Discusses human sensitivity to certain low-level concentrations of anesthetic gases. Includes possible effects on visual perception, immediate memory, and a combination of perception, cognition, and motor responses.

Hazards to Hospital Workers. HRSA Contract. September 1980. 33 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information about specific hazards of hospital work and insight into methods of protection and analysis of job-related uses. Suggested readings, references, and clinical applications are discussed. Bibliography.

Hospital Occupational Health and Safety. NIOSH. January 1977. 11 pp. Request free single copy from NIOSH.

> Summarizes the principles and guidelines derived from the NIOSH Hospital Occupational Health Services Study. The study surveyed programs for employee safety and health in almost 4,000 general hospitals.

Hospital Occupational Health Services Study. NIOSH.

Volume I--Environmental Health and Safety Control. July 1974. 101 pp. DHEW (NIOSH) Publ. No. 75-154. GPO No. 017-033-00033-6. NTIS No. PB-273838/3. Available from GPO and NTIS.

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Volume II--Employee Health and Safety Statistics and Records. March 1975. 69 pp. DHEW (NIOSH) Publ. No. 75-154. GPO No. 017-033-00068-9. NTIS No. PB-267517/1. Available from GPO and NTIS.

Volume III--Organization and Administration of Hospital Occupational Health Services; Volume IV--Staffing of the Hospital Occupational Health Unit. August 1975. 69 pp. DHEW (NIOSH) Publ. No. 76-107. NTIS No. PB-266242/7. Available from NTIS.

Volume V--Occupational Health Services for Hospital Employees. August 1975. 34 pp. DHEW (NIOSH) Publ. No. 76-115. GPO No. 017-033-00010-2. Available from GPO.

Volume VI--Special Information. NIOSH. August 1975. 39 pp. DHEW (NIOSH) Publ. No. 76-116. NTIS No. PB-266243/5. Available from NTIS.

> These documents represent a series of reports of a national survey of hospitals, the purpose of which was to provide NIOSH with resource information on existing employee health services in hospitals and to develop an acceptable action program to protect and promote the health of hospital employees in the United States.

Hospitals in the Americas. Pan American Health Organization, Regional Office of the World Health Organization. 1981. 52 pp. No. 416. Available from PAHO.

> Presents information to aid in assessing the availability of hospital facilities in Latin America and the Caribbean. Includes discussion of the need to improve the information supplied by hospitals, definition of terms, and the classification of data. Provides statistical information on hospital resources, services, and utilization.

Radiation Protection for Nuclear Medicine Procedures: A Training Program for Nuclear Medicine Personnel. See RADIATION.

Safe Use of Defibrillators. Academy of Health Sciences. 1977. 17-minute videocassette. Contact Chief, Library Service, at local VA medical center.

> Presents a program for physicians, nurses, and nurse practitioners emphasizing the seriousness of the potential hazards of using a defibrillator.

HEALTH SERVICES

Audiovisual Resources in Occupational Safety and Health. See DISEASE PREVENTION AND HEALTH PROMOTION.

Clinic-Based Occupational Safety and Health for Small Businesses. NIOSH. 1978. 187 pp. DHEW (NIOSH) Publ. No. 77-172. NTIS No. PB-274720. Available from NTIS.

> Contains the proceedings of a NIOSH-sponsored seminar/workshop to develop a mechanism for delivering occupational health services to small business employees. Topics include the impact of national health insurance on occupational safety and health services, the needs for occupational safety and health services, and the expanded role of occupational safety and health professionals.

Community Diagnosis: The Industrial and Environmental Profile. HRSA Contract. September 1982. 36 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information for clinicians to aid in developing industrial and environmental profiles of the communities in which they are located. Describes the importance of the industrial directory, high health hazard industries, and the standard industrial classification. Illustrates research methods of mapping industrial and environmental data. Bibliography.

Conceptual Framework for Occupational Health Surveillance. A.R. Spirtas et al. NIOSH. March 1978. 14 pp. DHEW (NIOSH) Publ. No. 78-135. GPO No. 017-033-00285-1. Request free single copy from NIOSH.

> Explores the state of the art in occupational health surveillance. Diagrams how various data sources can be combined to achieve the maximum understanding of occupational health hazards. Information derived from such a program will permit the systematic identification of high-risk occupational groups, relate exposures to specific health outcomes, and provide data that are prerequisite to the prioritization of needs in research, evaluation, and control. A comparison is made with surveillance systems in other countries.

Costs and Benefits of Occupational Health Nursing. NIOSH. 1980. 95 pp. DHHS (NIOSH) Publ. No. 80-140. GPO No. 017-033-00368-8. NTIS No. PB81-223893. Available from GPO and NTIS.

> Presents the results of a study to determine the economic benefit of occupational health nursing programs in small industrial plants.

Directory of Academic Programs in Occupational Safety and Health. NIOSH. 1979. 139 pp. DHEW (NIOSH) Publ. No. 79-126. NTIS No. PB80-149503. Available from NTIS.

> Provides information on various academic programs being offered in the field of occupational safety and health.

Environmental Health Management after Natural Disasters. Pan American Health Organization, Regional Office of the World Health Organization. 1982. 68 pp. No. 430. Available from PAHO.

> Serves as a guide to those in charge of planning and implementing environmental health protective measures following disasters. Considers effects of disasters on environmental health, actions that should be taken to correct environmental health problems caused by natural disasters, and the order of actions during the emergency phase. Includes data on steps to be taken toward the rehabilitation and restoration of basic services. This is the fourth publication in a series of PAHO manuals on disaster preparedness measures (the previous volumes discussed health management, vector control, and epidemiologic surveillance).

Epidemiology and Nursing. Pan American Health Organization, Regional Office of the World Health Organization. 1976. 16 pp. Available from PAHO.

> Presents the final report and recommendations of a Work Group on Epidemiology in Nursing, which considered specific aspects of epidemiology and its application to health care.

Ethical Dilemmas Facing Clinicians Who Provide Health Services to Workers. See LEGAL AND ETHICAL DILEMMAS.

Guide to Available Resources: An Annotated Review. See DISEASE PREVENTION AND HEALTH PROMOTION.

Health Care Cost Containment. See LITERATURE SEARCHES--National Library of Medicine.

Health Needs and Services for Hispanic Americans. See LITERATURE SEARCHES--National Library of Medicine.

Hospices. See LITERATURE SEARCHES--National Library of Medicine.

Hospital Information Systems. See LITERATURE SEARCHES--National Library of Medicine.

Implications of Cost-Effectiveness Analysis of Medical Technology, The. Background Paper #2. Case Studies of Medical Technologies. Office of Technology Assessment, U.S. Congress.

Case Study #3. Screening for Colon Cancer: A Technology Assessment. April 1981. 19 pp. OTA-BP-H9(3). GPO No. 052-003-00811-4. NTIS No. PB81-209785. Available from GPO and NTIS.

Examines the available technologies used to screen for cancer of the colon: their development, evaluation, cost effectiveness, and use.

Case Study #7. Allocating Costs and Benefits in Disease Prevention Programs: An Application to Cervical Cancer Screening. May 1981. 32 pp. OTA-BP-H9(7). GPO No. 052-003-00818-1. NTIS No. PB81-221806. Available from GPO and NTIS.

Examines the state of the art of cost-effectiveness analysis as the technique pertains to disease prevention and health promotion programs.

Case Study #9. The Artificial Heart: Cost, Risks, and Benefits. May 1982. 94 pp. OTA-BP-H-9(9). GPO No. 052-003-00876-9. NTIS No. PB82-239971. Available from GPO and NTIS.

Examines the cost-effectiveness of the artificial heart. Discusses risk factors and benefits.

Case Study #17. Surgery for Breast Cancer. October 1981. 29 pp. OTA-BP-H9(17). GPO No. 052-003-00857-2. NTIS No. PB82-124181. Available from GPO and NTIS.

Examines the cost-effectiveness factors of surgery for breast cancer.

Index of Symptoms of Industrial Diseases. See DISEASE PREVENTION AND HEALTH PROMOTION.

Medical Information Systems. See LITERATURE SEARCHES--National Technical Information Service.

Mine Safety: Occupational Health--General Studies. See LITERATURE SEARCHES--National Technical Information Service.

Mine Safety: Occupational Health--Radioactivity. See LITERATURE SEARCHES--National Technical Information Service.

New Nurse in Industry, The. NIOSH. 1978. 118 pp. DHEW (NIOSH) Publ. No. 78-143. GPO No. 017-033-00295-9. NTIS No. PB82-215773. Available from GPO and NTIS.

Contains basic and fundamental principles, duties, and responsibilities for nurses who may have no experience in occupational health. Material in this guide can be used by employees in recruiting and selecting nurses and in planning programs for quality nursing services.

Occupational Diseases: A Guide to Their Recognition. See DISEASE PREVENTION AND HEALTH PROMOTION.

Occupational Health in Health Service Areas: Handbook for Planning. NIOSH. 1979. 107 pp. DHEW (NIOSH) Publ. No. 78-203. NTIS No. PB-297597. Available from NTIS.

Serves as a starting point for identifying occupational safety and health program needs in a health planning area.

Occupational Health: Recognizing and Preventing Work-Related Disease. See DISEASE PREVENTION AND HEALTH PROMOTION.

Occupational Health Services and Employee Health Programs. See LITERATURE SEARCHES--National Technical Information Service.

Occupational Safety and Health Guidelines for Colleges and Universities: An Administrative Resource Manual. NIOSH. 1979. 107 pp. DHEW (NIOSH) Publ. No. 79-108. NTIS No. PB-297757. Available from NTIS.

Includes discussion on the philosophy and organization of an occupational safety and health program and the details of administrative and financial support necessary. Contains a list of resource materials and organizations that can provide additional information.

Preventive Medicine: Costs. See LITERATURE SEARCHES--National Technical Information Service.

Preventive Medicine: Major Studies. See LITERATURE SEARCHES--National Technical Information Service.

Primer in Occupational and Environmental Health for the Family Physician. HRSA Contract. September 1983. 200 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

Contains information for use in the clinical setting concerning the diagnosis, management, and prevention of occupationally and environmentally related diseases. The Primer is written for physicians in family medicine and other primary care specialties who see workers and their families in their normal office practice.

Recognition and Evaluation of Occupational Health Problems. R.S. Bernstein and J.S. Lee. Environmental and Occupational Medicine. 1983. pp. 7-19. Reprinted by the USDHHS/PHS.

Provides an introduction to the general principles and methodologies involved in recognizing and evaluating occupational health problems. Contains a discussion of occupational disease prevention by routine methods of monitoring and surveillance. Bibliography.

Safety Program Practices in Record Holding Plants. H.H. Cohen et al. NIOSH. March 1979. 114 pp. DHEW (NIOSH) Publ. No. 79-136. GPO No. 017-033-00358-1. Request free single copy from NIOSH.

Examines safety program practices in industry. Summarizes two preceding studies and compares their results with the findings of this survey. Bibliography.

Selected Medical Specialities and Their Relation to Occupational Medicine. HRSA Grant. September 1980. Available from J. Felton, M.D., Southern Occupational Health Center, 19722 MacArthur Blvd., Irvine, CA 92717.

Indicates the relationship between occupational medicine and three related specialities: family medicine, general surgery, and psychiatry. Presents a scenario to enable primary care physicians to familiarize themselves with the workings of an industrial plant.

Selected NIOSH Health Issues Affecting Clerical and Secretarial Personnel. NIOSH. October 1982. 3 pp. Request free single copy from NIOSH.

Lists and annotates selected NIOSH publications, which can be purchased from either GPO or NTIS, on health issues affecting clerical and secretarial personnel. Order information included.

Selected NIOSH Occupational Medicine and Nursing Publications. NIOSH. August 1982. 6 pp. Request free single copy from NIOSH.

Lists and annotates selected NIOSH publications on occupational medicine and nursing that can be purchased from either GPO or NTIS. Order information included.

Selected NIOSH Safety Publications. NIOSH. August 1982. 3 pp. Request free single copy from NIOSH.

Lists and annotates selected NIOSH publications on safety that can be purchased from GPO or NTIS. Order information included.

Self-Evaluation of Occupational Safety and Health Programs. NIOSH. 1978. 109 pp. DHEW (NIOSH) Publ. No. 78-187. GPO No. 017-033-00345-9. Available from GPO.

Outlines a program for industrial self-evaluation and steps needed for implementing this program. Target areas with potential for improved safety and health are described in detail.

Vocational Rehabilitation and the Primary Care Physician. HRSA Grant. May 1982. 58 pp. Available from F.M. Bishop, Ph.D., Professor and Chairman, Community Medicine Department, The University of Alabama in Huntsville, School of Primary Medical Care, 201 Governors Drive, SW., Huntsville, AL 35801.

Self-instructional package including case study. Designed for clinicians.

HEALTH STATISTICS

Advance Data. Blood Carbon Monoxide Levels in Persons 3-74 Years of Age: United States, 1976-1980. See CHEMICAL HAZARDS--Carbon Monoxide.

Atlas of Cancer Mortality for U.S. Counties: 1950-1969. See CANCER.

Atlas of Mortality from Selected Diseases, An. T.J. Mason et al. Division of Cancer Cause and Prevention, NCI. May 1981. 309 pp. NIH Publ. No. 81-2397. GPO No. 017-042-00157-9. Available from GPO.

> Contains maps denoting areas with high concentrations of non-neoplastic diseases, cancer-related diseases, and other conditions selected on the basis of general epidemiologic interest. Summary tables are presented for each disease. Each table includes the distribution of both the age-adjusted rate and the number of deaths. For most diseases considered, data for all age groups and for each sex and racial group are presented. Criteria used for the inclusion of diseases were as follows: the disorder was known or suspected to be linked to cancer, as a precursor state or an alternate expression of a common risk factor; the disorder was of major public health importance because of high mortality rates; or the disorder was associated with geographically limited exposure. Bibliography.

Cancer Patient Survival Experience. See CANCER.

Cancer Patient Survival. Report Number 5. See CANCER.

Cardiovascular Profile of 15,000 Children of School Age in Three Communities 1971-1975. See CARDIOVASCULAR SYSTEM.

Catalog of Publications of the National Center for Health Statistics. Office of Health Research, Statistics, and Technology, NCHS. July 1980. 33 pp. DHHS Publ. No. (PHS) 80-1301. Request free single copy from NCHS.

> Contains the complete cumulative listing of the Vital and Health Statistics Series from 1962 to the present. This catalog replaces the Current Listing and Topical Index to the Vital and Health Statistics Series.

Catalog of Publications of the National Center for Health Statistics 1977-1981. Office of Health Research, Statistics, and Technology, NCHS. May 1982. 31 pp. DHHS Publ. No. (PHS) 82-1301. Request free single copy from NCHS.

> Presents a comprehensive listing of all NCHS reports published during the 5-year period from 1977 to 1981.

Data Systems of the National Center for Health Statistics. Office of Health Research, Statistics, and Technology, NCHS. December 1981. 37 pp. DHHS (PHS) Publ. No. 82-1318. GPO No. 017-022-00771-1. Available from GPO.

> Describes the data collection programs of NCHS. For each program the background, purpose, scope, sample design, data collection procedures, content of data collection forms, methods of data release, and uses of data are presented.

Environmental Health. A Plan for Collecting and Coordinating Statistical and Epidemiologic Data. Office of Health Research, Statistics, and Technology, NCHS. 1980. 78 pp. DHHS Publ. No. (PHS) 80-1248. GPO No. 017-022-00699-5. Request free single copy from NCHS.

> Includes a review of the data currently available from Federal data collection systems on human health and vital events in the American population, pollutants in the ambient or workplace environment, and personal exposures to suspected hazards. Identifies deficiencies inherent in the use of these systems and all environmental health data. Specific issues relating to the availability, access, analysis, quality, and generality of environmental health data are raised and discussed in terms of current data gaps and deficiencies relevant to environmental health research. Bibliography.

Facts at Your Fingertips. A Guide to Sources of Statistical Information on Major Health Topics. Office of Health Research, Statistics, and Technology, NCHS. May 1981. Fifth edition. 180 pp. DHHS Publ. No. (PHS) 81-1246. Out of print. Available at many libraries.

> Lists sources of statistical information on some of the major health topics. Under each topic, NCHS publications or data are cited first, followed by other DHHS sources, other Federal Agencies, and private organizations and associations. Includes references to non-statistical publications to respond to requests for general information on selected topics.

Health Status and Health Status Indexes. See LITERATURE SEARCHES--National Technical Information Service.

Health United States and Prevention Profile. See DISEASE PREVENTION AND HEALTH PROMOTION.

Morbidity and Mortality Weekly Report. See JOURNALS/NEWSLETTERS.

Mortality from Cardiovascular and Noncardiovascular Diseases for U.S. Cities. See CARDIOVASCULAR DISEASES.

National Occupational Hazard Survey (NOHS). NIOSH.

Pilot Study for Development of an Occupational Disease Surveillance Method. May 1975. 161 pp. DHEW (NIOSH) Publ. No. 75-162. NTIS No. PB-267511. Available from NTIS.

Presents the results of a study conducted to determine the usefulness of a survey method for obtaining data on occupational disease among workers.

Volume I--Survey Manual. November 1976. 203 pp. DHEW (NIOSH) Publ. No. 74-127. NTIS No. PB-274241. Available from NTIS.

Describes a two-year study on health and safety in the American work environment. Discussion includes worker exposures to chemical and physical agents. This field manual serves as a guide to occupational health surveyors and is a reference tool for those evaluating NOHS results presented in Volumes II and III.

Volume II--Data Editing and Data Base Development. July 1977. 142 pp. DHEW (NIOSH) Publ. No. 77-213. NTIS No. PB-274819. Available from NTIS.

Describes the statistical design of the NOHS. Projection algorithm, editing and expansion of data files, data base system analyses, and generalized retrieval systems of the NOHS are presented.

Volume III--Survey Analysis and Supplemental Tables. 1977. 791 pp. DHEW (NIOSH) Publ. No. 78-114. GPO No. 017-033-00277-1. Available from GPO.

Contains summary tables derived from NOHS data that profile the medical, safety, and industrial hygiene programs by Standard Industrial Classification and plant size. Includes data on exposure estimates for the 200 most common hazards.

Reliability and Utilization of Occupational Disease Data. NIOSH. June 1977. 161 pp. DHEW (NIOSH) Publ. No. 77-189. NTIS No. PB80-175698. Available from NTIS.

Describes the deficiencies of the NOHS data collection and analysis system for occupationally related diseases. Presents recommendations for its modification.

Selected Topics in Federal Health Statistics. Office of Technology Assessment, U.S. Congress. June 1979. 212 pp. OTA-H-90. GPO No. 052-003-00683-9. NTIS No. PB-298449. Available from GPO and NTIS.

Examines data systems used in Federal health programs and offers alternatives for their effective management. Also lists laws that authorize the DHEW to collect and maintain data.

Statistics Needed for Determining the Effects of the Environment on Health. Report of the Technical Consultant Panel to the United States. National Committee on Vital and Health Statistics, NCHS. July 1977. Series 4, No. 20. 49 pp. DHEW Publ. No. (PHS) 79-1457. GPO No. 017-022-00561-1. Request free single copy from NCHS.

Presents recommendations concerning which statistical data on health effects of the environment should be collected, how the recommended data should be collected, and any changes that should be made in the existing measurements of environmental factors in order to more efficiently relate environmental factors to health effects.

Survival for Cancers of the Respiratory System. See RESPIRATORY SYSTEM.

Survival for Melanoma of the Skin and Cancers of the Eye, Brain, and Cranial Meninges, Thyroid, Bone, and Connective Tissue. See CANCER.

Vital and Health Statistics. A Guide to Sources of Information. F. Weise. Reference Section, NLM. 1982. 20 pp. Request free single copy from NLM.

Presents a highly selective list of reference material for the reader who is unfamiliar with vital and health statistics. Includes a selection of abstracts, indexes, bibliographies, textbooks, journals, directories, and other reference sources pertinent to the field.

Vital Statistics of the United States. Vol. II, Mortality. NCHS. Issued annually. Distributed free, through NCHS, to a limited number of non-profit organizations. Copies of some recent volumes available from GPO.

Presents yearly statistics on mortality for the United States population.

Where to Find BLS Statistics on Women. Bureau of Labor Statistics, DOL. September 1980. BLS Report 612. 10 pp. Request free single copy from DOL.

Identifies various publications the BLS has produced on a wide array of data about working women.

JOURNALS/NEWSLETTERS

Cancergram. See CANCER.

Cancer Treatment Reports. See CANCER.

Current Awareness in Health Education. Center for Health Promotion and Education, CDC. Published monthly. Subscription available from GPO.

> Contains abstracts describing health education programs, methodology, and literature relevant to school health education, patient education, community health education, and worksite health education.

Environmental Health Perspectives. NIEHS. Published six times a year. Subscription available from GPO.

> Publishes compilations of articles presented at conferences. Includes target organ toxicity data, discussion of directions in environmental health disciplines, and overviews of a range of environmental topics.

EPA Update. EPA. Published biweekly. Subscription available from GPO.

> Contains information concerning Agency policy and attitudes on various current issues. Cites recent documents that may impact present or future regulations. Lists grant and contract awards.

FDA Drug Bulletin. See PHARMACEUTICALS.

Journal of the National Cancer Institute. See CANCER.

Medical Service Digest. Office of the Surgeon General, USAF. Published bimonthly. Subscription available from GPO.

> Disseminates official and professional information about activities and facility development to civilians and members of the USAF Medical Service worldwide.

Morbidity and Mortality Weekly Report. CDC. Published weekly. Subscription available from GPO.

> Contains information on disease outbreaks, environmental hazards and other public health problems of current interest to health professionals. Data contained in this report are received weekly from state health departments and health officials.

National Toxicology Program Technical Bulletin. NIEHS, NCI, NCTR, NIOSH. Published monthly. Subscription available from NTP.

Contains information on various activities of the program and sponsoring Agencies. Lists chemical test results and summary data from the carcinogenesis bioassay review. Contracts and interagency and master agreements are listed quarterly.

Public Health Reports. Official Journal of the U.S. Public Health Service. Published six times a year. Subscription available from GPO.

Contains scientific papers and other information on the broad topic of prevention of disease and disability.

Smoking and Health Bulletin. See SMOKING.

LEGAL AND ETHICAL DILEMMAS

Citizen's Guide on How to Use the Freedom of Information Act and the Privacy Act in Requesting Government Documents, A. Thirteenth Report by the Committee on Government Operations. November 2, 1977. Union Calendar No. 412. 95th Congress, 1st Session--House Report No. 95-793. GPO No. 052-071-00540-4. Available from GPO.

> Intended to inform and advise citizens of their rights under the Freedom of Information and Privacy Acts and to facilitate the exercise of these rights.

Clean Air Acts and Air Quality Acts: Health Aspects. See LITERATURE SEARCHES--National Technical Information Service.

Current Problems of Medicine and the Law. Department of Medicine and Surgery, VA. 1978. Contact Chief, Library Service, at local VA medical center.

Number 1. An Overview. 12-minute videocassette.

> Compares the claims activities of the VA and the private sector with specific reference to the remaining tapes in the series. Intended for physicians, nurses, and administrators.

Number 2. Professional Duty to the Patient. 21-minute videocassette.

> Focuses on the health professional's and institution's legal duty not to harm the patient while providing him that degree of medical care considered usual and customary. Emphasis is on contract and tort law as it creates and perpetuates the patient-physician relationship. Intended for physicians, dentists, nurses, and administrative staff.

Number 3. Patient Injury Prevention. 21-minute videocassette.

> Provides physicians, dentists, nurses, and administrative staff with the basic elements found in any patient injury control or risk management program. Highlights a few of the more commonly occurring causes of patient injury and methods of diminishing their effects.

Number 4. The Medical Record. 23-minute videocassette.

> Dramatizes both the legal and educational benefits of accurate, concise, and legible documentation of the medical record. Emphasizes several specific dos and don'ts. Intended for physicians, dentists, nurses, and administrative staff.

Number 5. When a Claim is Filed. 22-minute videocassette.

Portrays the role of the VA District Counsel, the advocate of the VA, in investigating a claim. Intended for physicians, dentists, nurses, and administrative staff, as it stresses their involvement and responsibility in patient care.

Number 6. Defense of a Lawsuit. 26-minute videocassette.

Clarifies the roles of the U.S. attorney, the VA District Counsel, the plaintiff's attorney, and the health care professional. Intended for physicians, dentists, nurses, and administrative staff.

Ethical and Legal Issues in Terminal Care. Albert Einstein Medical Center. 1980. 60-minute cassette. Contact Chief, Library Service, at local VA medical center.

Discusses medical ethics and legislation pertaining to hospices and care of the terminally ill.

Ethical Dilemmas Facing Clinicians Who Provide Health Services to Workers. HRSA Contract. September 1982. Instructional package. 27 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

Contains information for clinicians on providing health care to patients who pose unique ethical problems. Illustrates problems of confidentiality and access to medical records. Bibliography.

Malpractice in Hospitals, Dentistry, Nursing, Pharmacy, Veterinary Medicine and Allied Health Professions. See LITERATURE SEARCHES--National Library of Medicine.

Patient's Bill of Rights, A. J. Freebairn and K. Gwinup. Concept Media. 1980. 95 slides, 25-minute sound cassette, and guide. Contact Chief, Library Service, at local VA medical center.

Presents the 12 provisions of the American Hospital Association's statement on patient's rights. Interprets each provision and discusses some of the problems inherent in implementing these rights and the role of the nurse as the patient's advocate in ensuring that these rights are not violated.

Physician and Malpractice, The. See LITERATURE SEARCHES--National Library of Medicine.

Physicians: Education, Licensure and Certification. See LITERATURE SEARCHES--National Technical Information Service.

LITERATURE SEARCHES

This section is divided into two parts:

- National Library of Medicine Literature Searches
- National Technical Information Service Searches.

Searches are listed alphabetically by title under each part of the section.

National Library of Medicine Literature Searches

These bibliographies are reprints of literature searches requested by individual physicians, scientists, and other health professionals, and are considered to be of wide interest. Single copies may be ordered by number and title from the National Library of Medicine (NLM) at no charge.

Adverse Effects of Diazepam on the Fetus and Neonate. January 1969 through June 1978. 60 citations. NLM Order No. 78-17.

Adverse Effects of Oral Contraceptives. July 1974 through December 1977. 659 citations in English. NLM Order No. 78-9.

Adverse Effects of Prenatal Exposure to Diethylstilbestrol (DES). January 1975 through October 1978. 163 citations. NLM Order No. 78-29.

Adverse Effects of Selenium. January 1977 through September 1981. 106 citations. NLM Order No. 81-23.

Agent Orange. January 1972 through December 1980. 99 citations. NLM Order No. 80-30.

Aging Heart, The. January 1979 through September 1981. 267 citations. NLM Order No. 81-21.

Arsenic Toxicology. January 1977 through October 1981. 354 citations. NLM Order No. 81-25.

Asbestos Toxicology. August 1977 through May 1982. 597 citations. NLM Order No. 82-6.

Audiovisual Aids, Computer Assisted Instruction, and Programmed Instruction in Education for the Health Professions. January 1978 through October 1981. 391 citations. NLM Order No. 81-27.

Audiovisual Aids, Computer Assisted Instruction, and Programmed Instruction in Patient Education. January 1977 through September 1982. 336 citations in English. NLM Order No. 82-21.

Audiovisual Aids in Dental Education. May 1974 through April 1978. 92 citations. NLM Order No. 78-19.

Audiovisual Aids in Medical Education. May 1974 through April 1978. 253 citations in English. NLM Order No. 78-10.

Audiovisual Aids in Nursing Education. May 1974 through May 1978. 98 citations. NLM Order No. 78-15.

Benzene Toxicology. January 1977 through September 1980. 164 citations. NLM Order No. 80-9.

Cadmium and the Environment. January 1976 through August 1978. 94 citations. NLM Order No. 78-24.

Cardiopulmonary Resuscitation (CPR). January 1977 through October 1980. 112 citations. NLM Order No. 80-4.

Chromium Toxicology. January 1977 through September 1981. 250 citations. NLM Order No. 81-24.

Chymopapain in the Treatment of Back Pain and Sciatica. January 1969 through July 1978. 80 citations. NLM Order No. 78-20.

Computed Tomographic Scanning of the Brain. January 1978 through September 1981. 660 citations in English. NLM Order No. 81-20.

Computer Aided and Programmed Instruction in Medical Education. May 1974 through April 1978. 90 citations in English. NLM Order No. 78-11.

Computer Assisted and Programmed Instruction in Dental Education. May 1974 through April 1978. 25 citations. NLM Order No. 78-18.

Computer Assisted and Programmed Instruction in Nursing Education. May 1974 through May 1978. 48 citations. NLM Order No. 78-16.

Dental Sealants. January 1977 through November 1983. 199 citations in English. NLM Order No. 83-24.

Diagnosis-Related Patient Classification. January 1975 through April 1982. 170 citations. NLM Order No. 82-7.

Diagnostic Ultrasound in Pregnancy. January 1977 through August 1982. 388 citations in English. NLM Order No. 82-20.

Diet and Cancer: Etiology and Prevention. January 1978 through December 1980. 371 citations. NLM Order No. 80-28.

Diet and Hyperactivity. January 1975 through December 1981. 148 citations. NLM Order No. 81-29.

Dioxin Toxicology (including Agent Orange). January 1981 through September 1983. 128 citations. NLM Order No. 83-19.

Drugs and Pharmacy in Developing Countries. January 1977 through August 1982. 172 citations. NLM Order No. 82-18.

Drugs and the Elderly. January 1977 through October 1980. 287 citations. NLM Order No. 80-5.

Drug Therapy for Leprosy Patients. January 1980 through August 1982. 135 citations. NLM Order No. 82-19.

Elemental Diet. January 1975 through October 1980. 170 citations. NLM Order No. 80-3.

Emergency Care for Burn Patients. January 1975 through December 1980. 124 citations. NLM Order No. 80-16.

Estrogen Replacement Therapy. January 1976 through June 1978. 173 citations. NLM Order No. 78-12.

Exercise Therapy and Physical Fitness in the Rehabilitation of Patients with Cardiovascular Disease. January 1975 through December 1977. 284 citations. NLM Order No. 78-3.

Experimental Uses of Lithium. January 1977 through December 1979. 121 citations. NLM Order No. 79-18.

Food and Drug Interaction. January 1979 through September 1982. 116 citations and addendum. NLM Order No. 82-22.

Formaldehyde Toxicology. January 1977 through June 1982. 213 citations. NLM Order No. 82-11.

Health Care Cost Containment. January 1975 through October 1983. 349 citations in English. NLM Order No. 83-23.

Health Effects of Nuclear Radiation. January 1979 through May 1982. 427 citations. NLM Order No. 82-4.

Health Needs and Services for Hispanic Americans. January 1980 through July 1982. 96 citations. NLM Order No. 82-13.

Hospices. January 1966 through May 1979. 92 citations. NLM Order No. 79-8.

Hospital Information Systems. January 1975 through September 1983. 319 citations in English. NLM Order No. 83-17.

Hypertension in the Child or Adolescent. January 1977 through September 1979. 122 citations. NLM Order No. 79-13.

Hypertension in the Elderly. January 1975 through September 1979. 78 citations. NLM Order No. 79-12.

Hypertension--Role of Body Weight, Sodium, Food Habits, and Weight Reduction. January 1975 through September 1979. 81 citations. NLM Order No. 79-11.

Impaired Physician, Including Occupational Risks, The. January 1977 through June 1981. 175 citations. NLM Order No. 81-10.

Inhalation Injury. January 1977 through June 1982. 133 citations. NLM Order No. 82-9.

Intrauterine Growth Retardation (IUGR). January 1978 through August 1983. 417 citations in English. NLM Order No. 83-11.

Kepone (Chlordecone) Toxicology. January 1977 through March 1983. 90 citations and addendum. NLM Order No. 83-3.

Laetrile. January 1966 through March 1978. 72 citations. NLM Order No. 78-2.

Lead Exposure in Children. January 1977 through July 1981. 354 citations. NLM Order No. 81-7.

Low-Dose Heparin in Thromboembolic Disease Prophylaxis. January 1976 through December 1978. 148 citations. NLM Order No. 79-1.

Malpractice in Hospitals, Dentistry, Nursing, Pharmacy, Veterinary Medicine and Allied Health Professions. May 1974 through September 1978. 242 citations in English. NLM Order No. 78-28.

Maternal Alcohol Consumption and Fetal and Newborn Effects, Including the Fetal Alcohol Syndrome (FAS). May 1978 through October 1983. 304 citations in English. NLM Order No. 83-22.

Maternal Alcohol Use and Effects on the Fetus and the Neonate, Including the Fetal Alcohol Syndrome (FAS). January 1975 through April 1978. 128 citations. NLM Order No. 78-13.

Nuclear Magnetic Resonance Imaging. January 1980 through August 1983. 191 citations. NLM Order No. 83-7.

Nurse Practitioners and Physicians' Assistants. January 1977 through October 1980. 193 citations. NLM Order No. 80-11.

Nutrition and the Elderly. January 1977 through August 1981. 302 citations. NLM Order No. 81-14.

Passive Smoking. January 1972 through September 1980. 162 citations. NLM Order No. 80-1.

Patient Package Inserts. January 1975 through December 1977. 38 citations. NLM Order No. 78-1.

Physician and Malpractice, The. May 1974 through September 1978. 521 citations in English. NLM Order No. 78-27.

Precursors to Malignant Melanoma--Dysplastic or Congenital Nevi. January 1977 through October 1983. 101 citations. NLM Order No. 83-18.

Psychologic Aspects of Cancer. January 1978 through July 1981. 424 citations in English. NLM Order No. 81-18.

Ranitidine. January 1980 through July 1983. 249 citations. NLM Order No. 83-8.

Recertification or Relicensure. January 1975 through December 1978. 150 citations in English. NLM Order No. 78-30.

Simulation in Education and Assessment for the Health Professions. January 1975 through September 1982. 213 citations in English. NLM Order No. 82-23.

Smoking and Reproduction, Pregnancy, and the Newborn. January 1972 through July 1978. 241 citations in English, French, Spanish, or German. NLM Order No. 78-23.

Sulindac: An Anti-Inflammatory Analgesic. January 1975 through December 1978. 27 citations. NLM Order No. 79-4.

Therapeutic Use of Dimethyl Sulfoxide. January 1975 through December 1980. 155 citations. NLM Order No. 80-31.

Toxicology of Polybrominated Biphenyl Compounds. January 1977 through December 1980. 124 citations. NLM Order No. 80-32.

Toxicology of Polychlorinated Biphenyl Compounds. January 1975 through December 1980. 517 citations. NLM Order No. 80-26.

Vinyl Chloride Toxicology. January 1977 through October 1980. 245 citations. NLM Order No. 80-8.

Zinc Toxicology. January 1977 through July 1982. 204 citations. NLM Order No. 82-10.

National Technical Information Service Published Search Bibliographies

These bibliographies are reprints of literature searches considered to be of wide interest. Copies of the searches are available from NTIS.

Adverse Effect of Carbon Monoxide Exposure. January 1978 through May 1981. 138 citations. NTIS Order No. PB81-865057.

Aflatoxin Contamination of Foods. 1978 through February 1982. 157 citations. NTIS Order No. PB82-861600.

Aflatoxin Determination in Foods. September 1978 through April 1980. 200 citations. NTIS Order No. PB80-807209.

Arsenic in Foods. 1972 through January 1982. 270 citations. NTIS Order No. PB82-860867.

Asbestos and Silicate Pollution. 1970 through March 1982. Includes silicosis and asbestosis. 205 citations. NTIS Order No. PS-78/1243/1.

Asbestos and Silicate Pollution. 1977 through November 1979. Includes silicosis and asbestosis. 214 citations. NTIS Order No. PB81-802803.

Asbestos and Silicate Pollution. December 1979 through March 1982. Includes silicosis and asbestosis. 264 citations. NTIS Order No. PB82-806910.

Asbestos: Industrial Applications and Precautions. 1974 through January 1982. 84 citations. NTIS Order No. PB82-860081.

Behavior and Physiological Effects of Noise. 1977 through 1980. 251 citations. NTIS Order No. PB82-807355.

Behavior and Physiological Effects of Noise. 1981 through March 1982. 80 citations. NTIS Order No. PB82-807363.

Benzene Toxicity. 1978 through January 1982. 135 citations. NTIS Order No. PB82-858879.

Bioindicators of Pollution. 1964 through November 1977. 243 citations. NTIS Order No. PS-78/1142/5.

Bioindicators of Pollution. 1977 through February 1982. 195 citations. NTIS Order No. PB82-804691.

Biological Effects of Laser Radiation. 1964 through January 1978. 242 citations. NTIS Order No. PS-79/0019/4.

Biological Effects of Laser Radiation. 1978 through April 1982. 84 citations. NTIS Order No. PB82-807934.

Biological Effects of Lead Pollution. 1964 through 1977. 227 citations. NTIS Order No. PS-79/0228/1.

Biological Effects of Lead Pollution. 1978 through March 1981. 173 citations. NTIS Order No. PB81-805319.

Biological Effects of Mercury Pollution. June 1980 through September 1981. 56 citations. NTIS Order No. PB82-800889.

Biological Effects of Microwaves. 1964 through 1977. 204 citations. NTIS Order No. PS-79/0432/9.

Biological Effects of Microwaves. 1978 through June 1981. 122 citations. NTIS Order No. PB81-806994.

Biological Effects of Microwave Radiation. January 1975 through September 1981. 180 citations. NTIS Order No. PB81-881864.

Cadmium in Foods. July 1976 through January 1982. 126 citations. NTIS Order No. PB82-861337.

Cadmium Exposure: Health Effects. January 1970 through June 1981. 51 citations. NTIS Order No. PB81-869091.

Cadmium Pollution. 1964 through November 1977. 283 citations. NTIS Order No. PS-78/1151/6.

Cadmium Pollution. December 1977 through October 1980. 178 citations. NTIS Order No. PB82-805714.

Cadmium Pollution. November 1980 through January 1982. 133 citations. NTIS Order No. PB82-805722.

Caffeine: Biochemical and Physiological Effects. 1978 through February 1982. 181 citations. NTIS Order No. PB82-861998.

Caffeine in Food and Beverages. January 1972 through June 1981. Covers biological effects, analysis, and removal. 223 citations. NTIS Order No. PB81-868671.

Cancer Therapy by Hyperthermia. January 1976 through August 1981. 59 citations. NTIS Order No. PB81-874034.

Carbon Tetrachloride: Metabolism and Toxicity. 1978 through February 1982. 203 citations. NTIS Order No. PB82-862004.

Carcinogen Bioassay Methodology. 1970 through July 1981. 243 citations. NTIS Order No. PB81-807927.

Carcinogens Found in the Petroleum and Petrochemical Industries. 1976 through December 1980. 287 citations. NTIS Order No. PB82-807850.

Carcinogens Found in the Petroleum and Petrochemical Industries. 1981. 82 citations. NTIS Order No. PB82-807868.

Carcinogenicity Testing Methods. 1978 through January 1982. 245 citations. NTIS Order No. PB82-860735.

Cardiovascular Diseases. 1973 through February 1977. 253 citations. NTIS Order No. PS-78/0102/0.

Cardiovascular Diseases. March 1977 through February 1981. 236 citations. NTIS Order No. PB81-804320.

Cholesterol in Foods and Its Effects on Animals and Humans. September 1974 through January 1982. 258 citations. NTIS Order No. PB82-861345.

Chromium Toxicity. 1978 through January 1982. 156 citations. NTIS Order No. PB82-860727.

Chronic Obstructive Lung Disease. 1964 through March 1981. 97 citations. NTIS Order No. PB81-804858.

Cigarette Pollution Effects on Humans. 1970 through March 1982. 83 citations. NTIS Order No. PB82-864554.

Cigarette Smoking. 1964 through March 1981. 225 citations. NTIS Order No. PB81-804882.

Clean Air Acts and Air Quality Acts: Health Aspects. January 1970 through June 1981. 182 citations. NTIS Order No. PB81-868218.

Cold Weather Stress on Humans. 1964 through August 1981. 157 citations. NTIS Order No. PB82-800202.

DDT, DDD, and DDE Pesticides. 1977 through 1981. 203 citations. NTIS Order No. PB82-803990.

Developing Countries: Human Nutrition. 1970 through March 1982. 126 citations. NTIS Order No. PB82-863739.

Disinfectants: Chlorine and Chlorine Dioxide. 1978 through February 1982. 125 citations. NTIS Order No. PB82-863085.

Disinfectants: Phenolic Compounds. 1978 through February 1982. 100 citations. NTIS Order No. PB82-862871.

Dust Control in Rubber and Plastic Plants. January 1973 through September 1981. 151 citations. NTIS Order No. PB81-880866.

Ecology of Insecticide Water Pollution. 1974 through 1977. 278 citations. NTIS Order No. PS-79/0108/5.

Ecology of Insecticide Water Pollution. 1978 through February 1981. 103 citations. NTIS Order No. PB81-805590.

Environmental Carcinogens. November 1976 through December 1978. 206 citations. NTIS Order No. PB80-803687.

Environmental Carcinogens. 1979 through February 1981. 285 citations. NTIS Order No. PB82-807389.

Environmental Carcinogens. March 1981 through March 1982. 108 citations. NTIS Order No. PB82-807397.

Fluoride Toxicity. 1978 through January 1982. 172 citations. NTIS Order No. PB82-859141.

Food Additives. January 1974 through June 1981. Cites only major articles. 236 citations. NTIS Order No. PB81-868309.

GRAS (Generally Recognized as Safe) Food Ingredients. 1964 through June 1979. 653 citations. NTIS Order No. PS-79/0650/6.

GRAS (Generally Recognized as Safe) Food Ingredients. July 1979 through January 1982. 104 citations. NTIS Order No. PB82-804436.

Health Hazards from Styrenes in Industry. January 1973 through May 1981. 111 citations. NTIS Order No. PB81-867707.

Health Status and Health Status Indexes. March 1976 through March 1981. 225 citations. NTIS Order No. PB81-804650.

Herbicide Residues: Methods for the Detection and Monitoring. January 1970 through June 1981. 81 citations. NTIS Order No. PB81-869372.

Herbicides Use in Food Production. November 1976 through April 1980. 200 citations. NTIS Order No. PB80-807423.

Herbicides Use in Food Production. November 1976 through March 1982. 346 citations. NTIS Order No. PB82-863549.

Historical Reviews: Industrial, Occupational, and Public Health and Safety. January 1970 through May 1981. 75 citations. NTIS Order No. PB81-868184.

Hyperthermia and Radiation Effects. 1978 through 1981. 121 citations. NTIS Order No. PB82-859968.

Hypocalcemia in Man. January 1978 through December 1980. 128 citations. NTIS Order No. PB81-862187.

Hypothermia. 1964 through May 1980. 250 citations. NTIS Order No. PB81-808271.

Hypothermia. June 1980 through August 1981. 18 citations. NTIS Order No. PB81-808289.

Industrial Health Hazards Due to Atmospheric Factors. August 1975 through September 1978. 236 citations. NTIS Order No. PB80-802465.

Industrial Health Hazards Due to Atmospheric Factors. October 1978 through March 1982. 252 citations. NTIS Order No. PB82-806381.

Industrial Hygiene. January 1974 through May 1981. 62 citations. NTIS Order No. PB81-863615.

Insecticide Residues in Agricultural Crops: Organophosphorus Residues. January 1970 through June 1981. 97 citations. NTIS Order No. PB81-869463.

Lead Exposure: Public and Occupational Health Hazards. January 1972 through June 1981. 133 citations. NTIS Order No. PB81-869265.

Low Level Radiation and Chromosome Aberrations. January 1970 through May 1981. 61 citations. NTIS Order No. PB81-868317.

Lung Cancer. 1964 through February 1982. 218 citations. NTIS Order No. PB82-806191.

Medical Information Systems. 1976 through March 1982. 92 citations. NTIS Order No. PB82-864216.

Mine Safety: Occupational Health--General Studies. 1964 through August 1980. 248 citations. NTIS Order No. PB82-803875.

Mine Safety: Occupational Health--General Studies. September 1980 through 1981. 60 citations. NTIS Order No. PB82-803883

Mine Safety: Occupational Health--Radioactivity. 1964 through 1981. 165 citations. NTIS Order No. PB82-803982.

Nitrogen Oxide Air Pollution: Biological Effects. 1964 through January 1982. 267 citations. NTIS Order No. PB82-805623.

Nitrogen Oxide Air Pollution: Biological Effects. 1973 through October 1980. 206 citations. NTIS Order No. PB81-806846.

Nitrosamines as Related to Food. January 1972 through November 1979. 429 citations. NTIS Order No. PB80-803380.

Noise-Induced Hearing Loss. January 1972 through August 1981. 112 citations. NTIS Order No. PB81-874323.

Nuclear Medicine. November 1976 through March 1982. 273 citations. NTIS Order No. PB82-858143.

Occupational Diseases: Byssinosis. 1975 through November 1981. 93 citations. NTIS Order No. PB82-856840.

Occupational Health Services and Employee Health Programs. September 1968 through March 1981. 82 citations. NTIS Order No. PB81-804742.

Pesticide Residues in Foods. July 1979 through April 1980. 200 citations. NTIS Order No. PB80-807126.

Pesticide Residues in Milk and Other Dairy Products. 1972 through March 1982. 244 citations. NTIS Order No. PB82-864455.

Physicians: Education, Licensure and Certification. 1964 through May 1981. 180 citations. NTIS Order No. PB81-806325.

Pneumoconiosis. January 1970 through October 1981. 121 citations. NTIS Order No. PB82-854944.

Pneumoconiosis. June 1970 through June 1980. 45 citations. NTIS Order No. PB81-855314.

Pneumoconiosis. June 1976 through April 1982. 73 citations. NTIS Order No. PB82-854936.

Pneumoconiosis. 1978 through January 1982. 88 citations. NTIS Order No. PB82-861881.

Polybrominated Biphenyls: Metabolism and Toxicity. 1978 through January 1982. 132 citations. NTIS Order No. PB82-859158.

Polychlorinated Biphenyls in the Environment. 1964 through August 1980. 294 citations. NTIS Order No. PB82-803859.

Polychlorinated Biphenyls in the Environment. September 1980 through 1981. 70 citations. NTIS Order No. PB82-803867.

Preventive Medicine: Cancer and Cardiovascular Diseases. June 1976 through January 1982. 118 citations. NTIS Order No. PB82-804444.

Preventive Medicine: Costs. 1974 through February 1982. 111 citations. NTIS Order No. PB82-804808.

Preventive Medicine: Diet and Nutrition. 1974 through January 1982. 56 citations. NTIS Order No. PB82-804394.

Preventive Medicine: Hazardous Materials Exposure and Public Health. 1976 through 1981. 183 citations. NTIS Order No. PB82-859216.

Preventive Medicine: Major Studies. 1964 through January 1982. Includes only broad studies and overlaps with other bibliographies in this series. 227 citations. NTIS Order No. PB82-804378.

Radiation Effects on Cells and Chromosomes. 1964 through August 1979. 254 citations. NTIS Order No. PB80-813876.

Radiation Effects on Cells and Chromosomes. September 1979 through November 1981. 193 citations. NTIS Order No. PB82-803651.

Radiation Protection Laws. January 1976 through November 1980. 129 citations. NTIS Order No. PB81-856403.

Radiation Therapy: Cellular Effects of Radiation. January 1976 through August 1981. 87 citations. NTIS Order No. PB81-874026.

Radiological Methods and Instrumentation for the Diagnosis and Treatment of Carcinomas. January 1975 through August 1981. 168 citations. NTIS Order No. PB81-873887.

Toxic Material Control in the Metal Joining and Finishing Industries. January 1966 through October 1981. 160 citations. NTIS Order No. PB82-853607.

Toxicity of Arsenic. January 1970 through October 1981. 150 citations. NTIS Order No. PB82-854381.

Toxicity of Arsenic. January 1976 through October 1981. 155 citations. NTIS Order No. PB82-854399.

Toxicity of Beryllium. June 1976 through May 1980. 45 citations. NTIS Order No. PB80-851272.

Toxicity of Cobalt. June 1976 through May 1980. 45 citations. NTIS Order No. PB80-857170.

Toxicity of Fibers. January 1970 through October 1981. 194 citations. NTIS Order No. PB82-855578.

Toxicity of Fibers. June 1976 through May 1980. 180 citations. NTIS Order No. PB80-853674.

Toxicity of Food Additives (Excluding Antioxidants). 1978 through March 1982. 94 citations. NTIS Order No. PB82-863465.

Toxicity of Food Additives with Antioxidant Properties. 1978 through March 1982. 52 citations. NTIS Order No. PB82-863499.

Toxicity of Gaseous Halogenated Organic Compounds. 1964 through June 1978. 292 citations. NTIS Order No. PS-79/0654/8.

Toxicity of Gaseous Halogenated Organic Compounds. July 1978 through June 1979. 244 citations. NTIS Order No. PB80-811540.

Toxicity of Gaseous Halogenated Organic Compounds. July 1978 through October 1981. 207 citations. NTIS Order No. PB82-801028.

Toxicity of Manganese. January 1970 through October 1981. 85 citations. NTIS Order No. PB82-854191.

Toxicity of Manganese. January 1976 through October 1981. 88 citations. NTIS Order No. PB82-854209.

Toxicity of Nickel. January 1970 through October 1981. 98 citations. NTIS Order No. PB82-854175.

Toxicity of Nickel. January 1976 through October 1981. 151 citations. NTIS Order No. PB82-854183.

Toxicity of Pesticides. October 1976 through August 1978. 388 citations. NTIS Order No. PS-79/0975/7.

Toxicity of Pesticides. September 1978 through December 1981. 340 citations. NTIS Order No. PB82-803040.

Toxicity of Selenium. January 1970 through October 1981. 76 citations. NTIS Order No. PB82-854233.

Toxicity of Selenium. January 1976 through October 1981. 97 citations. NTIS Order No. PB82-854241.

Toxicity of Transition Metals and Transition Metal Compounds. June 1970 through June 1980. 92 citations. NTIS Order No. PB80-859424.

Toxicity of Vinyl Chloride. 1969 through May 1981. 105 citations. NTIS Order No. PB81-806408.

Toxicity of Zinc. January 1970 through October 1981. 159 citations. NTIS Order No. PB82-854225.

Toxicity of Zinc. January 1976 through October 1981. 202 citations. NTIS Order No. PB82-854217.

Toxicology of Vinyl Chloride and Polyvinyl Chloride. 1978 through January 1982. 153 citations. NTIS Order No. PB82-858887.

Zinc in Foods. September 1976 through April 1980. 200 citations. NTIS Order No. PB80-807001.

NOISE

Behavior and Physiological Effects of Noise. See LITERATURE SEARCHES--National Technical Information Service.

Field Investigation of Noise Reduction Afforded by Insert-Type Hearing Protectors, A. NIOSH. 1979. 51 pp. DHEW (NIOSH) Publ. No. 79-115. NTIS No. PB-299319. Available from NTIS.

> Presents the results of a study that investigated the associations between the amount of earplug-attenuated noise received by workers and the following parameters: different earplug designs, company policy on earplug usage, physical activity of workers, workplace noise levels, and effects of numerical test sequence.

Noise Control. A Guide for Workers and Employers. OSHA, DOL. 1980. 119 pp. Request free single copy from DOL.

> Intended for workers and employers interested in reducing workplace noise. Presents the effects of noise on human health, concepts, explanations, and discussions of controlling noise, and the ways OSHA can help.

Noise-Induced Hearing Loss. See LITERATURE SEARCHES--National Technical Information Service.

Physical Hazards II. Noise and Vibration. HRSA Contract. December 1982. Instructional package. 51 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia PA 19129. (215) 842-6540.

> Provides information to better understand noise and vibration exposure. Pathophysiology of vibration effects, diagnosis, management, prevention, and control are discussed. Includes learning objectives and bibliography.

Survey of Hearing Conservation Programs in Industry. M.E. Schmidek et al. Division of Laboratories and Criteria Development, NIOSH. June 1975. 55 pp. and appendixes. HEW Publ. No. NIOSH 75-178. Request free single copy from NIOSH.

> Assesses industrial hearing conservation programs in terms of extent, standard practices, problems encountered, and apparent measure of effectiveness. Manufacturing, construction, transportation, and mining companies were surveyed. Forms and specification sheets provided by some of the companies interviewed are presented in the appendixes. Includes the questionnaire and data from the calibration checks.

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Asbestos. See ASBESTOS.

Computer-Simulation: Taking an Environmental/Occupational History. HRSA Grant. Project in developmental stage. Available from B.D. Goldstein, M.D., Chairman, Department of Environmental and Community Medicine, UMDNJ, Rutgers Medical School, Busch Campus, Piscataway, NJ 08854.

Teaches clinicians the importance of taking a patient's environmental exposure history. Uses multi-image techniques and computer simulations of environmental disease cases.

Occupational and Environmental History, The. HRSA Contract. May 1983. 36 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

Provides a systematic method to assist physicians in deciding whether a patient's illness results from or has been aggravated by hazardous occupational and environmental exposures, past or present. Contains a sample occupational history form and recommended criteria for establishing work-relatedness of disease. Bibliography.

Occupational Health History. HRSA Grant. September 1980. 57 pp. Available from F.M. Bishop, Ph.D., Professor and Chairman, Community Medicine Department, The University of Alabama in Huntsville, School of Primary Medical Care, 201 Governors Drive, SW., Huntsville, AL 35801.

Self-instructional package including case study. Designed for clinicians.

Taking an Occupational Environmental History. HRSA Grant. September 1981. 30-minute videotape and handout. Available from D.J. Worth, M.D., Department of Community Health, Tufts University School of Medicine, Boston, MA 02111.

Contains information for clinicians on conducting an occupational history. Includes two patient interviews dealing with occupational dermatosis and asbestosis.

ORGANIC SOLVENTS

Criteria for a Recommended Standard: Occupational Exposure to Dioxane. See CHEMICAL HAZARDS--Dioxane.

Criteria for a Recommended Standard: Occupational Exposure to Furfuryl Alcohol. See CHEMICAL HAZARDS--Furfuryl alcohol.

Criteria for a Recommended Standard: Occupational Exposure to Ketones. See CHEMICAL HAZARDS--Ketones.

Criteria for a Recommended Standard: Occupational Exposure to Refined Petroleum Solvents. NIOSH. 1977. 255 pp. DHEW (NIOSH) Publ. No. 77-192. GPO No. 017-033-00234-7. Available from GPO.

> Recommends a standard to protect workers from exposure to refined petroleum solvents. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to refined petroleum solvents; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

1,1-Dichloroethane. See CANCER for carcinogenesis bioassay information.

1,2-Dichloroethane. See CANCER for carcinogenesis bioassay information.

1,4-Dioxane. See CANCER for carcinogenesis bioassay information.

Engineering Control Technology Assessment of the Dry Cleaning Industry. NIOSH. October 1980. 211 pp. DHHS (NIOSH) Publ. No. 80-136. NTIS No. PB81-229759. Request free single copy from NIOSH.

> Assesses control technology in the dry cleaning industry. Survey included both commercial and industrial plants utilizing perchloroethylene, Stoddard solvent, and Fluorocarbon 113 as the principal solvents. Discusses exposure levels, natural ventilation, heat exposure, personal protective equipment, work practices, and workplace monitoring systems. Bibliography.

Extent-of-Exposure Survey of Methylene Chloride. See CHEMICAL HAZARDS--Methylene Chloride.

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Organic Solvents. HRSA Contract. September 1980. 35 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information to identify industries and job categories in which solvents constitute major health hazards. Describes forms of nonoccupational solvent exposure and their potential significance to occupational solvent exposure. Identifies tests to monitor exposure. Special emphasis is given to the clinical aspects of solvent exposure. Includes learning objectives and bibliography.

Permeation of Protective Garment Material by Liquid Halogenated Ethanes and A Polychlorinated Biphenyl. R.W. Weeks, Jr., and M.J. McLeod. NIOSH. January 1981. 41 pp. DHHS Publ. No. (NIOSH) 81-110. Request free single copy from NIOSH.

> Discusses the degree of protection afforded by various protective garment materials to the halogenated ethanes 1,2-dichloroethane, 1,1,1,-trichloroethane, 1,1,2-trichloroethane, and polychlorinated biphenyls. Presents an overview of occupational exposures and hazards to the above chemicals. Bibliography.

Revised Recommended Standard: Occupational Exposure to Ethylene Dichloride (1,2-Dichloroethane). See CHEMICAL HAZARDS--1,2-Dichloroethane.

1,1,2,2-Tetrachloroethane. See CANCER for carcinogenesis bioassay information.

Trichloroethane. See CANCER for carcinogenesis bioassay information.

1,1,1-Trichloroethane. See CANCER for carcinogenesis bioassay information.

1,1,2-Trichloroethane. See CANCER for carcinogenesis bioassay information.

Trichlorofluoromethane. See CANCER for carcinogenesis bioassay information.

PESTICIDES, HERBICIDES, AND INSECTICIDES

Agent Orange

Agent Orange: Vietnam's Deadly Fog. WBBM TV. 1979. 60-minute cassette. Contact Chief, Library Service, at local VA medical center.

Discusses "Agent Orange," the defoliant used by the U.S. in Vietnam and the controversy over exposure of servicemen to a chemical that may cause birth defects, cancer, or slow deterioration of health.

See LITERATURE SEARCHES--National Library of Medicine.

See also Review of Literature on Herbicides, Including Phenoxy Herbicides and Associated Dioxins in PESTICIDES, HERBICIDES, and INSECTICIDES.

Aldicarb. See CANCER for carcinogenesis bioassay information.

Aldrin. See CANCER for carcinogenesis bioassay information.

Anilazine. See CANCER for carcinogenesis bioassay information.

Azinphosmethyl. See CANCER for carcinogenesis bioassay information.

Calcium cyanamide. See CANCER for carcinogenesis bioassay information.

Captan. See CANCER for carcinogenesis bioassay information.

Chlorambucil. See CANCER for carcinogenesis bioassay information.

Chlordane. See CANCER for carcinogenesis bioassay information.

Chlordecone (Kepone). See CANCER for carcinogenesis bioassay information.

Chlorobenzilate. See CANCER for carcinogenesis bioassay information.

Chloropicrin. See CANCER for carcinogenesis bioassay information.

3-Chloro-p-toluidine. See CANCER for carcinogenesis bioassay information.

Chlorothalonil. See CANCER for carcinogenesis bioassay information.

Chlorpropamide. See CANCER for carcinogenesis bioassay information.

Coumaphos. See CANCER for carcinogenesis bioassay information.

Criteria for a Recommended Standard: Occupational Exposure to Carbaryl. NIOSH. 1977. 204 pp. DHEW (NIOSH) Publ. No. 77-107. GPO No. 017-033-00196-1. NTIS No. PB-273801. Available from GPO and NTIS.

> Recommends a standard to protect workers from exposure to carbaryl. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to carbaryl and formulation of pesticides; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure During the Manufacture and Formulation of Pesticides. NIOSH. 1978. 440 pp. DHEW (NIOSH) Publ. No. 78-174. NTIS No. PB81-227001. Available from NTIS.

> Recommends a standard to protect workers from exposure during the manufacture and formulation of pesticides. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure during the manufacture and formulation of pesticides; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Malathion. NIOSH. 1976. 196 pp. DHEW (NIOSH) Publ. No. 76-205. GPO No. 017-033-00186-3. NTIS No. PB-267070. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to malathion. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to malathion; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Methyl Parathion. NIOSH. 1976. 189 pp. DHEW (NIOSH) Publ. No. 77-106. GPO No. 017-033-00202-9. NTIS No. PB-274191. Available from GPO and NTIS.

> Recommends a standard to protect workers from exposure to methyl parathion. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to methyl parathion; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Parathion. NIOSH. 1976. 102 pp. DHEW (NIOSH) Publ. No. 76-190. GPO No. 017-033-00153-7. NTIS No. PB-274192. Request free single copy from NIOSH.

> Recommends a standard to protect workers from exposure to parathion. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to parathion; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

DDT, DDD, and DDE Pesticides. See LITERATURE SEARCHES--National Technical Information Service.

Detection of Mutagenic Properties of Pesticides Used in Commercial Corn Production, The. M.J. Plewa and J.M. Gentile. September 1983. NTIS No. PB83-226118. Available from NTIS.

> Presents the results of genotoxic studies of 21 pesticides and 12 combinations of herbicides. The genetic assays used were reverse mutation in Salmonella typhimurium; gene conversion in Saccharomyces cerevisiae; and reverse mutation in Zea mays. Option one of the project involved the entire spectrum of genetic assays and activation protocols for pesticides from a wide range of chemical classes. Option two involved selected genetic assays for s-triazine herbicides.

Diazinon. See CANCER for carcinogenesis bioassay information.

Dibenzo-p-dioxin. See CANCER for carcinogenesis bioassay information.

1,2-Dibromo-3-chloropropane. See CANCER for carcinogenesis bioassay information.

1,2-Dibromoethane. See CANCER for carcinogenesis bioassay information.

2,7-Dichlorodibenzo-p-dioxin (DCDD). See CANCER for carcinogenesis bioassay information.

Dichlorvos. See CANCER for carcinogenesis bioassay information.

Dicofol. See CANCER for carcinogenesis bioassay information.

Dieldrin. See CANCER for carcinogenesis bioassay information.

Dimethoate. See CANCER for carcinogenesis bioassay information.

Dioxathion. See CANCER for carcinogenesis bioassay information.

Dioxin Toxicology (including Agent Orange). See LITERATURE SEARCHES--National Library of Medicine.

Ecology of Insecticide Water Pollution. See LITERATURE SEARCHES--National Technical Information Service.

Endosulfan. See CANCER for carcinogenesis bioassay information.

Endrin. See CANCER for carcinogenesis bioassay information.

Fenaminosulf, Formulated. See CANCER for carcinogenesis bioassay information.

Fenthion. See CANCER for carcinogenesis bioassay information.

Fluometuron. See CANCER for carcinogenesis bioassay information.

Heptachlor. See CANCER for carcinogenesis bioassay information.

Herbicide Residues: Methods for the Detection and Monitoring. See LITERATURE SEARCHES--National Technical Information Service.

Herbicides Use in Food Production. See LITERATURE SEARCHES--National Technical Information Service.

Hexachlorophene. See CANCER for carcinogenesis bioassay information.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. See CHEMICAL HAZARDS--Overviews.

Volume 5. Some Organochlorine Pesticides.

Volume 15. Some Fumigants, the Herbicides, 2,4-D and 2,4,5-T, Chlorinated Dibenzodioxins and Miscellaneous Industrial Chemicals.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 30. Miscellaneous Pesticides. See CHEMICAL HAZARDS--Overviews.

Insecticide Residues in Agricultural Crops: Organophosphorus Residues. See LITERATURE SEARCHES--National Technical Information Service.

Kepone (Chlordecone) Toxicology. See LITERATURE SEARCHES--National Library of Medicine.

Lindane. See CANCER for carcinogenesis bioassay information.

Malaoxon. See CANCER for carcinogenesis bioassay information.

Malathion. See CANCER for carcinogenesis bioassay information.

Methoxychlor. See CANCER for carcinogenesis bioassay information.

Methyl parathion. See CANCER for carcinogenesis bioassay information.

Mexacarbate. See CANCER for carcinogenesis bioassay information.

Nitrofen. See CANCER for carcinogenesis bioassay information.

Occupational Safety and Health Symposia 1978. See CHEMICAL HAZARDS--Overviews.

Parathion. See CANCER for carcinogenesis bioassay information.

Pentachloronitrobenzene. See CANCER for carcinogenesis bioassay information.

Pesticide Poisonings and Injuries Where, When, How. University of Iowa, Institute of Agricultural Medicine and Environmental Health. 1979. 65 slides, 26-minute sound cassette, and guide. Contact Chief, Library Service, at local VA medical center.

> Contains information for the physician and chemist on the history of the development of pesticides, the epidemiology of pesticide poisoning, and the chemical classes that are largely responsible for poisonings. Discusses occupations involved in the manufacture, distribution, and use of pesticides and techniques for preventing poisonings.

Pesticide Residues in Foods. See LITERATURE SEARCHES--National Technical Information Service.

Pesticide Residues in Milk and Other Dairy Products. See LITERATURE SEARCHES--National Technical Information Service.

Phosphamidon. See CANCER for carcinogenesis bioassay information.

Photodieldrin. See CANCER for carcinogenesis bioassay information.

Picloram. See CANCER for carcinogenesis bioassay information.

Piperonyl butoxide. See CANCER for carcinogenesis bioassay information.

Piperonyl sulfoxide. See CANCER for carcinogenesis bioassay information.

Recognition and Management of Pesticide Poisonings. D.P. Morgan. National Pesticide Hazard Assessment Program, Office of Pesticide Programs, EPA. January 1982. 126 pp. EPA-540/9-80-005. GPO No. 005-000-00214-2. Available from GPO.

> Discusses hazards, symptoms, and treatments related to exposure to specific pesticides and classes of compounds used in pesticides.

Review of Literature on Herbicides, Including Phenoxy Herbicides and Associated Dioxins. Department of Medicine and Surgery, VA. October 1981. Available from GPO.

Volume I. Analysis of Literature. 228 pp. and appendix. GPO No. 051-000-00154-9.

> Presents a detailed assessment of the scientific literature on herbicides used in Vietnam.

Volume II. Annotated Bibliography. 397 pp. GPO No. 051-000-00155-9.

> Contains an annotated bibliography of documents relevant to the review of the scientific literature on the environmental fate and toxicity of herbicides, including phenoxy herbicides and associated dioxins used in Vietnam.

Special Occupational Hazard Review for Aldrin/Dieldrin. NIOSH. September 1978. 166 pp. DHEW (NIOSH) Publ. No. 78-201. NTIS No. PB-297769. Available from NTIS.

> Presents information on the potential health hazards of aldrin and dieldrin in the workplace and the environment. Includes information on teratogenic, carcinogenic, and mutagenic effects. Bibliography.

Special Occupational Hazard Review for DDT. NIOSH. September 1978. 205 pp. DHEW (NIOSH) Publ. No. 78-200. NTIS No. PB81-226656. Available from NTIS.

> Presents information on the potential health hazards associated with DDT in the workplace and the environment. Includes information on teratogenic, carcinogenic, and mutagenic effects. Bibliography.

Sulfallate. See CANCER for carcinogenesis bioassay information.

2,3,7,8-Tetrachloro-dibenzo-p-dioxin. See CANCER for carcinogenesis bioassay information.

2,3,5,6-Tetrachloro-4-nitroanisole. See CANCER for carcinogenesis bioassay information.

Tetrachlorvinphos. See CANCER for carcinogenesis bioassay information.

Toxaphene. See CANCER for carcinogenesis bioassay information.

Toxicity of Pesticides. See LITERATURE SEARCHES--National Technical Information Service.

Toxicology of Pesticides. E. Reiner. Health Effects Research Laboratory, EPA. July 1982. 68 pp. NTIS No. PB82-226077. Available from NTIS.

> Presents the results of five toxicological studies of pesticide compounds. The first study investigated the reactions of two groups of esterases with substrates. Procedures for monitoring the absorption of phosalone and malathion in occupationally exposed workers by determination of pesticide residues in the urine were developed in the second study. The third study compared the levels of chlorinated hydrocarbons in human milk and blood samples taken from the general population with those found in the serum of workers exposed to pesticides. In the fourth study, cholinesterase activity was used to assess the effects of recent changes in protective procedures on occupationally exposed pesticide workers. The fifth study was concerned with the alleged effect of pesticides on the eye and on vision.

Trifluralin. See CANCER for carcinogenesis bioassay information.

Triphenyltin hydroxide. See CANCER for carcinogenesis bioassay information.

Ziram. See CANCER for carcinogenesis bioassay information.

PHARMACEUTICALS

Acetohexamide. See CANCER for carcinogenesis bioassay information.

Acronycine. See CANCER for carcinogenesis bioassay information.

Actinomycin D. See CANCER for carcinogenesis bioassay information.

Adverse Effects of Diazepam on the Fetus and Neonate. See LITERATURE SEARCHES--National Library of Medicine.

Adverse Effects of Oral Contraceptives. See LITERATURE SEARCHES--National Library of Medicine.

Agar. See CANCER for carcinogenesis bioassay information.

2-Amino-5-nitrothiazole. See CANCER for carcinogenesis bioassay information.

L-Ascorbic acid. See CANCER for carcinogenesis bioassay information.

Aspirin, phenacetin, and caffeine. See CANCER for carcinogenesis bioassay information.

5-Azacytidine. See CANCER for carcinogenesis bioassay information.

Azathioprine. See CANCER for carcinogenesis bioassay information.

Background Material for the Development of the Food and Drug Administration's Recommendations on Thyroid-Blocking with Potassium Iodide. J.A. Halperin et al. Bureau of Radiological Health, FDA. March 1981. 17 pp. HHS Publ. FDA 81-8158. NTIS No. PB81-205361. Request free single copy from FDA.

> Provides background material on the development of FDA's recommendations for using potassium iodide as a thyroid blocking agent in the event of a radiation emergency. Includes information on the mechanism of action, efficacy, safety, and availability of potassium iodide; examples of actual and theoretical nuclear accidents and pathways of exposure that could require thyroid blocking; a discussion of previous recommendations relative to the use of potassium iodide as

a thyroid blocking agent, as well as alternative protective actions; descriptions of populations of special concern; and problems dealing with the procurement, storage, and distribution of the drug. Bibliography.

(+)Bis-4,4'-(1-methyl-1,2-ethanediyl)-2,6-piperazinedione. See CANCER for carcinogenesis bioassay information.

Caffeine: Biochemical and Physiological Effects. See LITERATURE SEARCHES--National Technical Information Service.

Carbromal. See CANCER for carcinogenesis bioassay information.

Cardiovascular Disease: Cardiac Drugs. See CARDIOVASCULAR SYSTEM.

Chlorambucil. See CANCER for carcinogenesis bioassay information.

4'-(Chloroacetyl)-acetanilide. See CANCER for carcinogenesis bioassay information.

Chloroform. See CANCER for carcinogenesis bioassay information.

2-(Chloromethyl)pyridine hydrochloride. See CANCER for carcinogenesis bioassay information.

Chymopapain in the Treatment of Back Pain and Sciatica. See LITERATURE SEARCHES--National Library of Medicine.

Congestive Heart Failure. Current Trends in Therapy. See CARDIOVASCULAR SYSTEM.

Consequences of Stress: The Medical and Social Implications of Prescribing Tranquilizers, The. See STRESS.

Cyclophosphamide. See CANCER for carcinogenesis bioassay information.

Cytarabine. See CANCER for carcinogenesis bioassay information.

Cytembena. See CANCER for carcinogenesis bioassay information.

Cytoxyl alcohol. See CANCER for carcinogenesis bioassay information.

Dacarbazine. See CANCER for carcinogenesis bioassay information.

Daunomycin. See CANCER for carcinogenesis bioassay information.

o,p'-DDD (o,p'-Dichlorodiphenyl dichloroethane). See CANCER for carcinogenesis bioassay information.

Dibromodulcitol. See CANCER for carcinogenesis bioassay information.

1,2-Dibromoethane. See CANCER for carcinogenesis bioassay information.

Dibromomannitol. See CANCER for carcinogenesis bioassay information.

Dichloromethotrexate. See CANCER for carcinogenesis bioassay information.

Drug-Induced Pulmonary Disease. See RESPIRATORY SYSTEM.

Drug Therapy for Leprosy Patients. See LITERATURE SEARCHES--National Library of Medicine.

Drug Utilization in Office Practice by Age and Sex of the Patient: National Ambulatory Medical Care Survey, 1980. NCHS. July 26, 1982. No. 81. 12 pp. DHHS Publ. No. (PHS) 82-1364. Request free single copy from NCHS.

> Explores the relationship between the age and sex of ambulatory patients and the drugs ordered or provided for them by physicians in office-based practices.

Drugs and Pharmacy in Developing Countries. See LITERATURE SEARCHES--National Library of Medicine.

Drugs and the Elderly. See LITERATURE SEARCHES--National Library of Medicine.

Emetine. See CANCER for carcinogenesis bioassay information.

Estradiol mustard. See CANCER for carcinogenesis bioassay information.

Estrogen Replacement Therapy. See LITERATURE SEARCHES--National Library of Medicine.

Ethionamide. See CANCER for carcinogenesis bioassay information.

Experimental Uses of Lithium. See LITERATURE SEARCHES--National Library of Medicine.

Failing Heart: The Role of the Inotropic Agents in Its Management, The. See CARDIOVASCULAR SYSTEM.

FDA Drug Bulletin. Division of Epidemiology and Drug Experience, FDA. Published on an as-needed basis. Free copies distributed to third and fourth year medical, dental, and pharmaceutical students, and to members of the AMA, ADA, and APA.

> Describes activities and information of importance to physicians and other health professionals.

FDA Drug Bulletin: A Chronological Index, April 1970 to April 1982, Third Edition. FDA. 1982. 53 pp. Request free single copy from FDA.

> Contains an index of FDA's Drug Bulletins. Arranged alphabetically by subject, year, and article titles.

FD&C Yellow No. 6. See CANCER for carcinogenesis bioassay information.

Food and Drug Interaction. See LITERATURE SEARCHES--National Library of Medicine.

Guanazole. See CANCER for carcinogenesis bioassay information.

Hexachloroethane. See CANCER for carcinogenesis bioassay information.

Hydroxyurea. See CANCER for carcinogenesis bioassay information.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. See CHEMICAL HAZARDS--Overviews.

Volume 7. Some Anti-Thyroid and Related Substances, Nitrofurans and Industrial Chemicals.

Volume 13. Some Miscellaneous Pharmaceutical Substances.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. See CHEMICAL HAZARDS--Overviews.

Volume 24. Some Pharmaceutical Drugs.

Volume 26. Some Antineoplastic and Immunosuppressive Agents.

3,3'-Iminobis-1-propanol dimethylsulfonate (ester) hydrochloride (IPD). See CANCER for carcinogenesis bioassay information.

Infectious Diseases Research. Antiviral Substances (Including Interferon). Office of Research Reporting and Public Response, NIAID. June 1978. 6 pp. DHEW (NIH) Publ. No. 78-1047. Request free single copy from NIAID.

Discusses exogenous and endogenous interferon and other antiviral substances that are used in clinical studies and for therapy.

Iodoform. See CANCER for carcinogenesis bioassay information.

Isophosphamide. See CANCER for carcinogenesis bioassay information.

Laetrile. See LITERATURE SEARCHES--National Library of Medicine.

Lomustine. See CANCER for carcinogenesis bioassay information.

Low-Dose Heparin in Thromboembolic Disease Prophylaxis. See LITERATURE SEARCHES--National Library of Medicine.

Melphalan. See CANCER for carcinogenesis bioassay information.

6-Mercaptopurine. See CANCER for carcinogenesis bioassay information.

Merphalan. See CANCER for carcinogenesis bioassay information.

Methotrexate. See CANCER for carcinogenesis bioassay information.

Methyl CCNU (4-methylcyclohexyl)-2-(chloroethyl)nitrosourea. See CANCER for carcinogenesis bioassay information.

6-Methylmercaptopurine ribonucleoside. See CANCER for carcinogenesis bioassay information.

Mitomycin C. See CANCER for carcinogenesis bioassay information.

Nithiazide. See CANCER for carcinogenesis bioassay information.

p-Nitrosodiphenylamine. See CANCER for carcinogenesis bioassay information.

Patient Compliance to Prescribed Antihypertensive Medication Regimens. NHLBI. 1980. 284 pp. NIH Publ. No. 81-2102. Request free single copy from NHLBI.

> Assesses and evaluates key trends emerging from the rapidly growing field of compliance research. Identifies the major themes, summarizes, and puts into perspective the large body of data resulting from the High Blood Pressure Education Research Program studies and summarizes generic issues and formulates recommendations for research and practice. Bibliography.

Patient Package Inserts. See LITERATURE SEARCHES--National Library of Medicine.

Phenazopyridine hydrochloride. See CANCER for carcinogenesis bioassay information.

Phenesterin. See CANCER for carcinogenesis bioassay information.

Phenformin. See CANCER for carcinogenesis bioassay information.

Phenoxybenzamine hydrochloride. See CANCER for carcinogenesis bioassay information.

N-Phenyl-p-phenylenediamine. See CANCER for carcinogenesis bioassay information.

Prednisone. See CANCER for carcinogenesis bioassay information.

Procarbazine hydrochloride. See CANCER for carcinogenesis bioassay information.

Pyrazinamide. See CANCER for carcinogenesis bioassay information.

Pyrimethamine. See CANCER for carcinogenesis bioassay information.

Ranitidine. See LITERATURE SEARCHES--National Library of Medicine.

Reserpine. See CANCER for carcinogenesis bioassay information.

Selenium sulfide. See CANCER for carcinogenesis bioassay information.

Selsun. See CANCER for carcinogenesis bioassay information.

Streptozoticin. See CANCER for carcinogenesis bioassay information.

Sulfisoxazole. See CANCER for carcinogenesis bioassay information.

Sulindac: An Anti-Inflammatory Analgesic. See LITERATURE SEARCHES--National Library of Medicine.

Therapeutic Use of Dimethyl Sulfoxide. See LITERATURE SEARCHES--National Library of Medicine.

beta-Thioguanidine deoxyriboside. See CANCER for carcinogenesis bioassay information.

Third International Radiopharmaceutical Dosimetry Symposium. Proceedings of a Conference Held at Oak Ridge, Tennessee, October 7-10, 1980. Bureau of Radiological Health, FDA. June 1981. 669 pp. HHS Publ. FDA 81-8166. Request free single copy from FDA.

> Contains the proceedings of the Third International Radiopharmaceutical Dosimetry Symposium sponsored by Oak Ridge Associated Universities, FDA, and DOE. Scientists from seven countries

presented papers on human biologic data, data handling techniques, animal data, data extrapolation methods, kinetics, and mathematical models. Bibliography.

Titanium dioxide. See CANCER for carcinogenesis bioassay information.

Tolazamide. See CANCER for carcinogenesis bioassay information.

Tolbutamide. See CANCER for carcinogenesis bioassay information.

Vinblastine. See CANCER for carcinogenesis bioassay information.

Vincristine. See CANCER for carcinogenesis bioassay information.

RADIATION

Administratively Required Dental Radiographs. Radiation Recommendation Series. Bureau of Radiological Health, FDA. September 1981. 18 pp. HHS Publ. FDA 81-8176. Request free single copy from FDA.

Presents an FDA recommendation on procedures for administratively required dental X-ray examinations. Designed to provide physicians, health physicists, technologists, and others involved in the radiologic process with guidance on appropriate radiologic health principles in the medical radiation area.

Airborne Ultrasound: Measurement and Possible Adverse Effects. B.A. Herman and D. Powell. Bureau of Radiological Health, FDA. May 1981. 11 pp. HHS Publication (FDA) 81-8163. NTIS No. PB81-243057. Request free single copy from FDA.

Presents findings of research concerning the possible adverse effects of airborne ultrasound on humans. Proposed exposure-limiting criteria and measurement techniques are presented and reviewed.

Annual National Conference on Radiation Control, 11th. Radiation: Minimizing Exposure, Optimizing Use. EPA, NRC, and FDA. June 1981. 421 pp. HHS Publ. FDA 81-8054. Request free single copy from FDA.

Contains the proceedings of the 11th Annual National Conference on Radiation Control held May 6-10, 1979, in Oklahoma City, Oklahoma. Participants representing state and major local radiation control programs, as well as Federal Agencies, discussed mutual radiation control programs. Bibliography.

Annual National Conference on Radiation Control, 12th. EPA, NRC, and FDA. Request status information from the National Center for Devices and Radiological Health, FDA.

Document expected to be released late 1984.

Annual National Conference on Radiation Control, 13th. Problems, Trends and Issues: The Need for Redefinition. EPA, NRC, and FDA. March 1982. 277 pp. HHS Publ. FDA 82-8054. Request free single copy from FDA.

Contains the proceedings of the 13th Annual National Conference on Radiation Control held May 2-6, 1981, in Little Rock, Arkansas. Participants representing state and major local radiation control programs, as well as Federal Agencies, discussed mutual radiation control programs but concentrated on problems, trends, and issues associated with waste management, emergency planning, and preparedness and radiation control in medical radiology facilities. Bibliography.

Background for Protective Action Recommendations: Accidental Radioactive Contamination of Food and Animal Feeds. B. Shleien, G.D. Schmidt, and R.P. Chiacchierini. Bureau of Radiological Health, FDA. August 1982. 44 pp. HHS Publ. FDA 82-8196. NTIS No. PB83-120246. Request free single copy from FDA.

Presents the rationale, dosimetry and agricultural transport models for the Protective Action Guides, along with information on dietary intake. Contains a discussion of field methods of analysis for radionuclides deposited on the ground or contained in milk and herbage. Various protective actions are described and evaluated, and a cost-effectiveness analysis for the recommendations is performed. Bibliography.

Biological Effects of Ionizing Radiation. M. Barrett. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1977. Available on loan from Training Resource Center, FDA.

Basic Concepts and History. 17-minute videocassette. No. 7021A.

Discusses the discovery of X-rays by Roentgen and the health problems of radium dial painters and pitch-blend miners. Discusses the determinants of radiation injury, including the dose-response concept and reparable versus irreparable radiation injury.

Determinants of Radiation Injury and the Acute Radiation Syndrome. 15-minute videocassette. No. 7021B.

Discusses the determinants of radiation injury including the dose-rate concept, individual sensitivity (LD50), and cell sensitivity. Contrasts acute and chronic effects and long- and short-term exposures. The four states of the acute radiation syndrome are reviewed.

Long-Term Effects of Ionizing Radiation, Part 1. 20-minute videocassette. No. 7021C.

Discusses those radiation effects for which the latent period may be as long as 20 years. Contrasts somatic and genetic effects and reviews the means by which radiation-induced genetic mutations may be passed from one generation to another.

Long-Term Effects of Ionizing Radiation, Part II. 30-minute videocassette. No. 7021D.

Reviews the long-term somatic effects of ionizing radiation, including carcinogenic, cataractogenic, embryologic, and lifespan-shortening effects.

Note: Nos. 7021A, B, C, and D have been granted continuing education credit by the American Society of Radiologic Technologists and the Society of Nuclear Medicine.

Biological Effects of Ionizing Radiation: An Overview, The. M.H. Barnett. Bureau of Radiological Health, FDA. October 1976. 17 pp. HEW Publ. (FDA) 77-8004. Request free single copy from FDA.

> Contains an overview of the biologic effects of ionizing radiation, including basic mechanisms of radiation injury, determinants in radiation damage, short-term effects, and long-term somatic and genetic effects, as well as a summary of human epidemiologic studies. Bibliography.

Biological Effects of Laser Radiation. See LITERATURE SEARCHES--National Technical Information Service.

Biological Effects of Microwaves. See LITERATURE SEARCHES--National Technical Information Service.

Biological Effects of Microwave Radiation. See LITERATURE SEARCHES--National Technical Information Service.

Cardiovascular Nuclear Medicine. See CARDIOVASCULAR SYSTEM.

Checklist for Establishing a Diagnostic Radiology Quality Assurance Program. R.L. Burkhart. September 1983. HHS Publ. FDA No. 83-8219. 62 pp. Request free single copy from FDA.

> Organizes some recently adopted quality assurance protocols into a step-by-step guide to aid clinical personnel in establishing a quality assurance program. A glossary of terms is provided.

Computed Tomographic Scanning of the Brain. See LITERATURE SEARCHES--National Library of Medicine.

Correlated Lecture Laboratory Series in Diagnostic Radiological Physics, The. Bureau of Radiological Health, FDA. February 1981. 105 pp. HHS Publ. FDA 81-8150. GPO No. 017-015-00184-9. NTIS No. PB81-183444. Request free single copy from FDA.

> Designed to aid instructors in developing and presenting diagnostic radiologic physics courses for radiology residents, clinicians, student radiologic technologists, and others involved in radiology. Consists of nine lectures, each accompanied by a laboratory exercise. Includes glossary and bibliography.

CSU-FDA Collaborative Radiological Health Laboratory Annual Report, 1979. Bureau of Radiological Health, FDA. January 1981. 165 pp. HHS Publ. FDA 81-8042. NTIS No. PB81-184566. Request free single copy from FDA.

> Contains information on the Collaborative Radiological Health Laboratory and presents results of a long-term study of the effects of irradiation during development in the beagle dog. Bibliography.

CSU-FDA Collaborative Radiological Health Laboratory Annual Report 1980: Health Effects of Prenatal and Postnatal Whole-Body Exposure to Ionizing Radiation in the Beagle Dog. Bureau of Radiological Health, FDA. January 1982. 125 pp. HHS Publ. FDA 82-8042. NTIS No. PB82-177817. Request free single copy from FDA.

> Contains information to facilitate the evaluation of risks to human beings from medical exposure to ionizing radiation during early development. Describes a long-term (life span) study of beagle dogs (a moderately large and long-lived mammal) exposed at one of several times during development to a relatively small and discrete dose of external radiation.

Current Issues in Radiological Health. Training Resources Center, National Center for Devices and Radiological Health, FDA. Available on loan from Training Resources Center, FDA.

Credentialing and Other Factors Affecting Medical X-Ray Equipment Operators' Performance. M. Audet and M. Barrett. 34-minute videocassette. No. 0123.

> Discusses the issue of credentialed versus noncredentialed medical X-ray equipment operators, as well as the results of a Bureau of Radiological Health "Front-End Analysis" survey of the factors that influence operator performance.

Discussion of the 1980 BEIR Report, A. J. Fabrikant and M. Barnett. 1980. 49-minute videocassette. No. 0120.

> Discusses the significance of the dose-response curve options that the Committee considered, the absolute versus relative risk models, the essential differences between BEIR I and BEIR III approaches to estimating cancer risk, and the controversy over cancer estimates which arose during the BEIR III deliberations.

Population Dose and Health Impact of the Three Mile Island Accident--Part I--Methodology. M. Barnett. 1979. 16-minute videocassette. No. 9054.

> Interviews representatives of the Nuclear Regulatory Commission, the Department of Health, Education, and Welfare, and the Environmental Protection Agency concerning how radiation doses were estimated following the accident.

Population Dose and Health Impact of the Three Mile Island Accident--Part II--Estimates of Dose and Health Effects. 19-minute videocassette. No. 9055.

> Presents a continuation of the interview begun in Part I (No. 9054) concerning the radiation dose estimates for the population around the facility and the potential health effects of these doses.

RF Sealers: Health and Safety Issues. R. Curtis et al. 1982. 39-minute videocassette. No. 2032.

Interviews representatives of the National Center for Devices and Radiological Health, the National Institute for Occupational Safety and Health, and the Occupational Safety and Health Administration. The participants describe radiofrequency heaters and sealers and their uses in industry; the potential hazards of these devices in the workplace; existing and proposed standards for worker protection; manufacturing and use problems that can lead to excessive exposure; and methods that can be used to reduce exposure.

Video Display Terminals. W. Parr, W. Herman, and M. Barnett. 1980. 24-minute videocassette. No. 0047.

Includes a discussion of the kinds of radiation emitted from the terminals, how the levels of these radiations compare with existing exposure guidelines, and several nonradiation problems related to video display terminals.

Current Topics in Brachytherapy Symposium. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1981. Available on loan from Training Resources Center, FDA.

Introduction. L. Laughlin. 10-minute videocassette. No. 1028A.

Presents an overview of the activities of the Northeast Center for Radiological Physics and the increase in brachytherapy use at Memorial Sloan-Kettering Cancer Center.

Cancer Management by Brachytherapy. B. Hilaris. 39-minute videocassette. No. 1028B.

Historical background, general guidelines, and detailed examples for cancer of the prostate and cancer of the lung are presented.

Dosimetry Issues in Brachytherapy. M. Masterson. 26-minute videocassette. No. 1030B.

Discusses the factors to be considered in brachytherapy dosimetry.

Localization and Optimization Techniques. L. Anderson. 23-minute videocassette. No. 1031B.

Discusses the methods used in brachytherapy source localization and techniques for the optimization of source distribution.

Radiation Protection in Brachytherapy--Progress and Retreat. J. St. Germain. 19-minute videocassette. No. 1030A.

Examines the state of radiation protection in brachytherapy. The status of use of radium or radon substitutes is examined as it relates to the radiation protection problems in brachytherapy techniques.

Radiobiological Aspects of Brachytherapy. E. Hall. 34-minute videocassette. No. 1029.

Discusses the effect of dose and dose rate on cell survival. It is the latter effect that probably accounts for the efficacy of implant techniques.

Uses of Computerized Tomography in Treatment of Cancer of the Cervix and Uterus. D. Bassano and W. Yu. 18-minute videocassette. No. 1031A.

Describes the use of computerized tomography in managing cervical and uterine cancer by both external beam and intracavity insertions. An experimental plastic applicator producing artifact-free computerized tomography is introduced.

Decontamination in the Nuclear Medicine Laboratory. D. Hamilton and J. Lewis. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1980. 22-minute videocassette. No. 0072. Available on loan from Training Resources Center, FDA.

Demonstrates the correct decontamination techniques for cleaning up a spill in the laboratory. Includes the preparation, decontamination, and follow-up phases of the procedure. This program has been granted continuing education credit by the American Society of Radiologic Technologists and The Society of Nuclear Medicine.

Determination of Ocular Threshold Levels for Infrared Radiation Cataractogenesis. D.G. Pitts et al. NIOSH. June 1980. 55 pp. DHHS (NIOSH) Publ. No. 80-121. GPO No. 017-033-00361-1. NTIS No. PB81-170896. Request free single copy from NIOSH.

Discusses threshold exposure values for the production of cataracts in the crystalline lens by infrared radiation. Bibliography.

Diagnostic Radiological Health Sciences. R. Brown. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1976. 7-minute videocassette. No. 7004. Available on loan from Training Resources Center, FDA.

Describes a self-contained teaching system designed to educate medical students in diagnostic radiology. Highlights the three portions of the learning laboratory that have been designed to address the major components of diagnostic radiology and includes actual scenes of the learning laboratory in use by students and instructors.

Diagnostic Ultrasound Effects on Cellular Growth Characteristics and DNA In Vitro. D. Liebeskind and H. Stewart. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1982. 39-minute videocassette. No. 2017. Available on loan from Training Resources Center, FDA.

Discusses the research that has revealed a number of cell changes induced by diagnostic levels of ultrasound. These include an increased frequency of sister chromatid exchange (an indicator of chromosome damage), changes in cell DNA, altered patterns of behavior in a number of mouse and other cell lines, and a number of other effects. Presents slides and a film to illustrate these findings and discusses the possible applications of these effects and their limitations with regard to diagnostic levels of ultrasound.

Effects of Ionizing Radiation on the Developing Embryo and Fetus: A Review. See REPRODUCTIVE AND DEVELOPMENTAL HAZARDS.

Emission Computed Tomography: The Single Photon Approach. P. Paras and E.A. Eikman. Bureau of Radiological Health, FDA. August 1981. 313 pp. HHS Publ. FDA 81-8177. GPO No. 017-015-00200-4. NTIS No. PB82-131285. Request free single copy from FDA.

Contains papers on single photon emission tomography presented at a symposium to promote the exchange of ideas and information on the state of the art. Scanner collimators, rotational and stationary type and image display, and system performance are discussed.

Feasibility Study of the Biological Effects of Fallout on People in Utah, Nevada, and Arizona, A. D.A. Hoffman, C.W. Harlow, and M.J. Tully. Bureau of Radiological Health, FDA. February 1981. 21 pp. HHS Publ. FDA 81-8151. NTIS No. PB81-187692. Request free single copy from FDA.

Reports the final results of the Utah, Nevada, and Arizona Thyroid Feasibility Study. Includes an analysis of linkage study with the Utah Cancer Registry and Rocky Mountain Cancer Data System; evaluation of tracing a sample of the original Utah, Nevada, and Arizona study groups; and options for future studies. Bibliography.

Federal Research on the Biological and Health Effects of Ionizing Radiation. National Academy of Sciences. 1981. 169 pp. Available from National Academy Press.

Reviews and evaluates 900 Federal research projects relating to the biologic and health effects of ionizing radiation. Assesses the Federal agenda for future research and makes recommendations for specific fields, including radiation dosimetry; epidemiology; research on animals, plants, and other forms of life; environmental exposure and radionuclide transport; occupational exposure; and reduction of risks from radiation therapy.

Federal Research on the Biological and Health Effects of Ionizing Radiation: Appendixes. National Academy of Sciences. 1981. 514 pp. Available from National Academy Press.

Provides background information and detailed discussions on the procedures and methodology used to prepare the main report (see above).

Hazards of Radiation at Work and in the Environment. HRSA Contract. September 1980. Instructional package. 24 pp. and appendix. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

Provides information for clinicians on the relevance, occurrence, and prevention of radiation hazards. Sources of radiation exposure, biologic efforts, monitoring, and protection are highlighted. Bibliography.

Health Effects of Nuclear Radiation. See LITERATURE SEARCHES--National Library of Medicine.

High-Yield Criteria for Panoramic Radiography. S.C. White et al. Bureau of Radiological Health, FDA. June 1982. 37 pp. HHS Publ. FDA 82-8186. NTIS No. PB82-229543. Request free single copy from FDA.

Discusses risks and benefits of using high-yield panoramic radiographs to plan treatment of dental patients.

Hyperthermia and Radiation Effects. See LITERATURE SEARCHES--National Technical Information Services.

Implications of Cost-Effectiveness Analysis of Medical Technology, The. Background Paper #5. Assessment of Four Common X-Ray Procedures. Office of Technology Assessment, U.S. Congress. April 1982. 63 pp. OTA-BR-H-14. GPO No. 052-003-00872-6. NTIS No. PB83-156506. Available from GPO and NTIS.

Examines the state of the art of cost-effectiveness analysis of four routinely performed X-rays.

Industrial Environment: Its Evaluation and Control, The. See CHEMICAL HAZARDS--Overviews.

Intercomparison of Nuclear Medicine, Ultrasonography, and Computed Tomography in the Diagnosis of Liver Disease: A Retrospective Study, An. J.A. Siegel et al. Bureau of Radiological Health, FDA. March 1981. 26 pp. HHS Publ. FDA 81-8157. NTIS No. PB81-199044. Request free single copy from FDA.

> Compares different techniques for diagnosing the various focal liver lesions and diffuse hepatic diseases. Discusses the importance of diagnosing disease entities in terms of sensitivity and specificity. Suggested protocols are outlined for specific suspected disease entities such as focal liver masses and obstructive jaundice. Bibliography.

Introduction to Laser Bioeffects, An. A. Anderson. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1979. 33-minute videocassette. No. 9029. Available on loan from Training Resources Center, FDA.

> Reviews physical properties of lasers that relate to evaluating hazards of exposure. Covers items of specific importance in terms of risks presented by laser light shows, including why the eye is the most sensitive organ.

Joint NCDRH and State Quality Assurance Surveys in Nuclear Medicine: Phase 1--Scintillation Cameras and Dose Calibrators. National Center for Devices and Radiological Health, FDA. August 1983. 44 pp. FDA 83-8209. Request free single copy from FDA.

> Presents the results of a survey of scintillation cameras and radionuclide dose calibrators from 321 facilities. Data were collected on nuclear medicine operations and their quality assurance programs. The information will be used to develop an education program for the surveyed population.

Low Level Radiation and Chromosome Aberrations. See LITERATURE SEARCHES--National Technical Information Service.

Mine Safety: Occupational Health--Radioactivity. See LITERATURE SEARCHES--National Technical Information Service.

NCDRH Publications Subject Index. Radiological Health (1973-1982). National Center for Devices and Radiological Health, FDA. March 1983. 10 pp. No Agency Publ. No. Request free single copy from FDA.

> Identifies radiation-related publications from National Center for Devices and Radiological Health. Listings are by broad subject areas and do not contain complete bibliographic information.

Nuclear Imaging: Fundamentals and Quality Control. C.C. Harris. Radiological Society of North America. 1978. 77 slides, 45-minute sound cassette, and booklet. Contact Chief, Library Service, at local VA medical center.

> Intended to familiarize the physician and medical student with the fundamentals of in vivo imaging, including basic energy-selective counting systems, rectilinear scanners, and gamma scintillation cameras.

Nuclear Magnetic Resonance Imaging. See LITERATURE SEARCHES--National Library of Medicine.

Nuclear Medicine. See LITERATURE SEARCHES--National Technical Information Service.

Overview of Dental Radiography, An. National Center for Health Care Technology Monograph Series. E.F. Manny et al. Bureau of Radiological Health, FDA. November 1980. 45 pp. Request free single copy from FDA.

> Includes dental radiology education curricula, guidelines for training and use, and findings and recommendations of professional organizations. Bibliography.

Overview of Ultrasound: Theory, Measurement, Medical Applications, and Biological Effects, An. H.F. Stewart and M.E. Stratmeyer, eds. Bureau of Radiological Health, FDA. July 1982. 142 pp. HHS Publ. FDA 82-8190. GPO No. 017-015-00206-3. NTIS No. PB83-111583. Request free single copy from FDA.

> Discusses medical ultrasound technology in the United States, emphasizing the potential biologic effects of ultrasound in humans and experimental animals and the mechanisms that possibly produce these effects. Bibliography.

Plain Skull Film Radiography in the Management of Head Trauma: An Overview. P.M. McCleann and L.P. Joseph. Bureau of Radiological Health, FDA. August 1981. 32 pp. HHS Publ. FDA 81-8172. NTIS No. PB82-120130. Request free single copy from FDA.

> Examines the efficacy of skull radiography. Discusses radiation exposure, economic considerations, and medico-legal aspects. Bibliography.

Potential Health Hazards of Video Display Terminals. NIOSH. 1980. 75 pp. DHHS (NIOSH) Publ. No. 81-129. NTIS Publ. No. PB82-218447. Available from NTIS.

> Discusses potential adverse health effects from using video display terminals.

Potential Human Study Populations for Non-Ionizing (Radio Frequency) Radiation Health Effects. L.C. Novotney and I. Gravitis. Health Effects Research Laboratory, EPA. March 1983. 150 pp. NTIS No. PB83-147447. Available from NTIS.

> Identifies eight potential human populations for future epidemiologic studies on the health effects of nonionizing radiation. Discusses advantages and disadvantages of each proposed population.

Practitioner's Guide to the Diagnostic X-Ray Equipment Standard, A. Bureau of Radiological Health, FDA. February 1981. 12 pp. HHS Publ. FDA 81-8155. Request free single copy from FDA.

> Contains information for practitioners who install their own X-ray equipment and, therefore, may be subject to provisions of the standard applicable to assemblers. Bibliography.

Pre-Employment Low Back X-Rays: An Overview. E.F. Manny et al. Bureau of Radiological Health, FDA. August 1981. 15 pp. HHS Publ. FDA 81-8173. NTIS No. PB82-122979. Request free single copy from FDA.

> Discusses pre-employment lower back X-rays. Summarizes available literature and explores the issues of the objective, protocol, costs, efficacy, medico-legal aspects, and risk of radiography of the lower spine. Bibliography.

Primer on Theory and Operation of Linear Accelerators in Radiation Therapy, A. C.J. Karzmark and R.J. Morton. Bureau of Radiological Health, FDA. December 1981. 48 pp. HHS Publ. FDA 82-8181. NTIS No. PB82-162306. Request free single copy from FDA.

> Presents an overview of the components of the linear accelerator and their functions and interrelations. Three videotapes entitled, "Theory and Operation of Linear Accelerators in Radiation Therapy, Parts I, II, III" accompany this booklet. Bibliography.

Procedures to Minimize Diagnostic X-Ray Exposure of the Human Embryo and Fetus. See REPRODUCTIVE AND DEVELOPMENTAL HAZARDS.

Radiation Effects on Cells and Chromosomes. See LITERATURE SEARCHES--National Technical Information Service.

Radiation Protection During Medical X-Ray Examinations. Training Resources Center, National Center for Devices and Radiological Health, FDA. Available on loan from Training Resources Center, FDA.

Part IV--Biological Effects of X-Rays. 1976. 35-minute videocassette. No. 7099.

Intended as an introduction to the subject of radiation bioeffects for the student technologist and also appropriate for use as a review presentation for practicing technologists. It describes in general terms the factors that influence the effects of radiation exposure and discusses the differences between genetic and somatic effects and the types of somatic effects that may occur. Throughout the presentation the need for adequate patient protection is reinforced.

Part V--Gonad Shielding in Diagnostic Radiology. 1976. 16-minute videocassette. No. 7124.

Following a brief discussion of the potential genetic hazards of ionizing radiation, this program outlines the considerations that should be reviewed in establishing an effective gonad shielding program. These include the types of patients and examinations for which gonad shielding is appropriate, the types of shields presently available, and the advantages and drawbacks of each type of shield.

Part VII--Film Screen Mammography: Physics and Quality Assurance. 1982. 35-minute videocassette. No. 2057.

Describes the radiographic characteristics of the breast and how they relate to the production of good mammograms. The use of low energy X-rays, and why they are important in mammography and their effect on patient exposure and image quality is discussed. A comparison is made of the advantages and disadvantages of special purpose and general purpose units. This part also explains why specially designed mammographic film/screen combinations are necessary for adequate imaging of the breast.

Note: Nos. 7099, 7124, and 2057 have been granted continuing education credit by the American Society of Radiologic Technologists.

Radiation Protection for Nuclear Medicine Procedures: A Training Program for Nuclear Medicine Personnel. J.T. Lewis and J.E. Jenson. Bureau of Radiological Health, FDA. 1980. 66 slides, 90-minute sound cassette, and manual. HHS Publ. No. FDA 80-8138. Contact Chief, Library Service, at local VA medical center.

Designed to teach radiologic health or nuclear medicine personnel how to reduce unnecessary radiation exposure from nuclear materials used in patient care.

Radiation Protection for Nuclear Medicine Procedures--Part I. Principles of Protection for Diagnostic Examinations. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1981. 24-minute videocassette. No. 0125. Available from Training Resources Center, FDA.

> Describes the sources of radiation exposure, explains who needs protection from exposure associated with nuclear medicine, and examines the methods of reducing exposure. This program has been granted continuing education credit by The American Society of Radiologic Technologists.

Radiation Protection Laws. See LITERATURE SEARCHES--National Technical Information Service.

Radiation Safety in Nuclear Medicine: A Practical Guide. V.J. Sodd, ed. Bureau of Radiological Health, FDA. November 1981. 68 pp. HHS Publ. FDA 82-8180. GPO No. 017-015-00203-9. NTIS No. PB82-159963. Request free single copy from FDA.

> Discusses safe operation of a nuclear medicine laboratory. Information is included on the handling of patients after administration of radiopharmaceuticals and personnel monitoring. Bibliography.

Radiation Therapy: Cellular Effects of Radiation. See LITERATURE SEARCHES--National Technical Information Service.

Radiological Health Training Resources Catalog 1983. Division of Training Support, National Center for Devices and Radiological Health, FDA. July 1983. HHS Publ. FDA 83-8023. 46 pp. Request free single copy from FDA.

> Contains a listing of videocassette programs available from the Training Resources Center. Abstracts are provided for the majority of the videocassettes.

Radiological Methods and Instrumentation for the Diagnosis and Treatment of Carcinomas. See LITERATURE SEARCHES--National Technical Information Service.

Research Report 1981-1982. Medical and Health Sciences Division. See CANCER.

Safe Use of Low Energy X-Rays in the Treatment of Skin Cancer. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1982. 28-minute videocassette. No. 2065. Available on loan from Training Resources Center, FDA.

> Discusses the risks associated with low energy X-ray therapy and presents an overview of radiation physics principles. Reviews important radiation safety procedures necessary to enhance the effectiveness of the treatment and to assure the safety of the facility and personnel.

Screening. See SCREENING.

Selection of Patients for X-Ray Examinations, The. R.F. Brown et al. Bureau of Radiological Health, FDA. January 1980. 53 pp. HEW Publ. (FDA) 80-8104. GPO No. 017-012-00285-4. NTIS No. PB80-157431. Request free single copy from FDA.

Contains information to reduce unnecessary medical radiation exposure of the population. Discusses relationships between the attending physician and the radiologist. Bibliography.

Selection of Patients for X-Ray Examinations: The Pelvimetry Examination, The. Bureau of Radiological Health, FDA. July 1980. 26 pp. HHS Publ. (FDA) 80-8128. GPO No. 017-015-00174-1. NTIS No. PB81-113490. Request free single copy from FDA.

Contains information on the pelvimetry X-ray examination. Journal articles on pelvimetry are reprinted in the appendix.

Source Book of Educational Materials for Medical Radiographers. M.L. Pijar. Bureau of Radiological Health, FDA. November 1977. 88 pp. HEW Publ. (FDA) 78-8047. GPO No. 017-015-00143-1. Request free single copy from FDA.

Lists educational materials on diagnostic radiologic technology. Revises and updates a list produced by the American Society of Radiologic Technologists (ASRT) under a Bureau of Radiological Health contract. Sections correspond to the subjects identified in the ASRT Curriculum Guide for schools of radiologic technology. Sections include information on publications and, in some cases, audiovisuals and training aids. Entries are listed without comment or endorsement.

Source Book of Educational Materials for Radiation Therapy. M.L. Pijar. Bureau of Radiological Health, FDA. August 1979. 132 pp. HEW Publ. (FDA) 79-8090. GPO No. 017-015-00159-8. Request free single copy from FDA.

Lists educational materials on radiation therapy technology. Sections correspond to the subjects identified in the ASRT Curriculum Guide for schools of radiation therapy. Sections include information on publications and, in some cases, audiovisuals and training aids. Entries are listed without endorsement.

Step-Sensitometric Technique for the Evaluation of Processing of Medical X-Ray Films. O. Suleiman. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1982. No. 2061. 33-minute videocassette. Available on loan from Training Resources Center, FDA.

Describes a survey procedure (STEP) that, while designed for state surveyors, can be used by medical physicists, consultants, or anyone interested in the evaluation of processing of medical

X-ray films. The goal of the STEP procedure is to identify the level of processing at a facility and to quantify this level of processing relative to normal patient exposure.

Test Procedure for Uranium in Drinking Water: Interlaboratory Collaborative Study. See CHEMICAL HAZARDS--Uranium.

Topics in Radiation Therapy. Training Resources Center, National Center for Devices and Radiological Health, FDA. Available on loan from Training Resources Center, FDA.

Brachytherapy Source Calibration. W. Hanson and R. Morton. 1980. 33-minute videocassette. No. 0071.

Discusses the need for institutions to know the strength of their brachytherapy sources. Recommendations for institutions to measure the strength of these sources and a demonstration of how to characterize a well-ionization chamber to carry out calibration are given.

Planning Cancer Therapy in Three Dimensions. M. Goitein and R. Morton. 1982. 34-minute videocassette. No. 2038.

Discusses the inadequacy of present-day treatment plans, which only consider two dimensions of the patient. Demonstrates three-dimensional treatment planning using a computer program developed at Massachusetts General Hospital and points out the usefulness of computer tomography data in improving the planning of cancer treatment.

Progress and Costs in Radiation Therapy. W. Powers and R. Morton. 1980. 12-minute videocassette. No. 0086.

Discussion of prevalence of cancer in the United States and presentation of data on the improvement in survival rates due, in part, to improved techniques and equipment. Discussion of changes in radiation therapy practice and the cost of radiation therapy as part of cancer costs. This program contains a summary of problems still remaining in radiation therapy.

Study of the Patterns of Care in Clinical Radiation Therapy in the United States, The. S. Kramer and R. Morton. 1981. 32-minute videocassette. No. 1041.

Describes the Patterns of Care Study in which the radiation therapy profession examined its level of performance in the treatment of cancer and where measures could be taken to improve the quality of cancer care. The Study looked at the structure of the profession (i.e., type of training and equipment), the processes involved (information used by the physician in treating the patient), and the outcome (the result of the intervention). Study results are discussed in detail, including data indicating that actual management often differs from a consensus of best current management.

Ultraviolet Radiation--Some Sources and Potential Hazards. F. Anderson. Training Resources Center, National Center for Devices and Radiological Health, FDA. 1977. 16-minute videocassette. No. 8011. Available on loan from Training Resources Center, FDA.

Discusses the ultraviolet portion of the electromagnetic spectrum. Reviews products that emit UV, including dental devices, phototherapy lamps, sunlamps, mercury vapor lamps, and fluorescent tubes. Also covers biologic effects, both immediate and delayed, of UV radiation on the human body.

Update of Publications. Medical and Health Sciences Division Research Report. October 1, 1982--April 30, 1983. Oak Ridge Associated Universities. 1983. 13 pp. Request free single copy from Oak Ridge Associated Universities.

Contains a listing by author of full-length journal articles, chapters, review articles, and other publications of the Medical and Health Science Division. Publications consist of information on cancers related to occupational exposures from chemical toxicants and ionizing radiation involved in energy production.

Use of Photographic Film to Estimate Exposure Near the Three Mile Island Nuclear Power Station. R.E. Shuping. Bureau of Radiological Health, FDA. February 1981. 15 pp. HHS Publ. FDA 81-8142. Request free single copy from FDA.

Compares photographic film samples obtained from five towns near the Three Mile Island Nuclear Power Station (TMI) in Pennsylvania to control films from the Rockville, Maryland, area to estimate radiation exposure levels during and after a core damage incident at TMI.

Utility of Administrative Diagnostic X-Rays, The. J.E. Potchen et al. Bureau of Radiological Health, FDA. August 1982. 84 pp. HHS Publ. FDA 82-8194. NTIS No. PB83-118497. Request free single copy from FDA.

Presents results of a descriptive study of policy formulation and implementation regarding use of employment-related chest and lumbar-spine radiographs by employers in the State of Michigan. Annotated bibliography and general references are included.

Workshop Manual on Radionuclide Handling and Radiopharmaceutical Quality Assurance. Division of Training and Medical Applications, FDA. July 1982. 52 pp. HHS Publ. FDA 82-8191. Request free single copy from FDA.

Discusses generator operation, yield, contaminants, and assay; calibrator testing procedure; radiopharmaceutical sterility, pyrogenicity and purity; Xenon storing, handling, and disposal; safety for patients and personnel; and shielding, monitoring, decontamination, and good working habits. Bibliography.

REPRODUCTIVE AND DEVELOPMENTAL HAZARDS

Adverse Effects of Diazepam on the Fetus and Neonate. See LITERATURE SEARCHES--National Library of Medicine.

Comprehensive Bibliography on Pregnancy and Work. NIOSH. 1978. 137 pp. DHEW (NIOSH) Publ. No. 78-132. GPO No. 017-033-00288-6. Available from GPO.

Contains a bibliography of articles on the influence of the work and home environments on the health of the mother and fetus.

Diagnostic Ultrasound Effects on Cellular Growth Characteristics and DNA In Vitro. See RADIATION.

Effects of Ionizing Radiation on the Developing Embryo and Fetus: A Review. D. Hoffman et al. Bureau of Radiological Health, FDA. August 1981. 149 pp. HHS Publ. FDA 81-8170. GPO No. 017-015-00198-9. NTIS No. PB82-113945. Request free single copy from FDA.

Presents experimental and epidemiologic data relevant to the age of the animal at exposure to ionizing radiation, with major emphasis on exposure during development. Bibliography.

Fetotoxic Effects of Nickel in Drinking Water in Mice. E. Berman and B. Rehnberg. September 1983. NTIS No. PB83-225383. Available from NTIS.

Presents the results of a study in which nickel chloride, at doses of 0, 500 and 1,000 ppm, was administered in drinking water to pregnant mice from the 2nd through 17th day of gestation. The oral route of administration was less effective in producing fetal effects than the parenteral route.

Guidelines on Pregnancy and Work. NIOSH. 1978. 81 pp. DHEW (NIOSH) Publ. No. 78-118. GPO No. 017-033-00279-7. Available from GPO.

Assists practicing obstetricians in assembling and interpreting information necessary for appropriate clinical recommendations to pregnant workers.

Hazards to Women in the Workplace. HRSA Contract. September 1980. Instructional package. 43 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

Provides information for clinicians on factors contributing to the hazards to women at work. Physical exposures to toxic substances, emotional and physical stress, threats to fertility and healthy reproduction, discrimination, and social support are highlighted. Includes learning objectives, and fact sheets for clinical workers, librarians, and working women. Bibliography.

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IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 6. Sex Hormones. See *CHEMICAL HAZARDS--Overviews*.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 21. Sex Hormones (II). See *CHEMICAL HAZARDS--Overviews*.

Identifying and Estimating the Genetic Impact of Chemical Mutagens. See *CHEMICAL HAZARDS--OVERVIEWS*.

Intrauterine Growth Retardation (IUGR). See *LITERATURE SEARCHES--National Library of Medicine*.

Maternal Alcohol Consumption and Fetal and Newborn Effects, Including the Fetal Alcohol Syndrome (FAS). See *LITERATURE SEARCHES--National Library of Medicine*.

Maternal Alcohol Use and Effects on the Fetus and the Neonate, Including the Fetal Alcohol Syndrome (FAS). See *LITERATURE SEARCHES--National Library of Medicine*.

Occupational Safety and Health Symposia 1978. See *CHEMICAL HAZARDS--Overviews*.

Overview of Ultrasound: Theory, Measurement, Medical Applications, and Biological Effects, An. See *RADIATION*.

Procedures to Minimize Diagnostic X-Ray Exposure of the Human Embryo and Fetus. Bureau of Radiological Health, FDA. August 1981. 30 pp. HHS Publ. FDA 81-8178. NTIS No. PB82-110552. Request free single copy from FDA.

> Includes recommendations on minimizing the X-ray exposure of pregnant or possibly pregnant women. Topics covered include biologic risks (teratogenic effects and cancer risk), effective scheduling systems, and basic principles and clinical approaches for the management of pregnant and possibly pregnant patients. Bibliography.

Proceedings of a Workshop on Methodology for Assessing Reproductive Hazards in the Workplace. NIOSH. 1981. 425 pp. DHHS (NIOSH) Publ. No. 81-100. GPO No. 017-033-00375-1. NTIS No. PB81-223521. Available from GPO and NTIS.

> Contains 29 papers on such topics as case studies of agents associated with adverse effects on reproduction, standard in vitro and in vivo tests for the identification of mutagens and teratogens, short-term methods for human surveillance of mutagens, including cytogenetic studies and sperm assays, and epidemiologic methods for detecting teratogens. Bibliography.

Proceedings of the U.S.-Finnish Joint Symposium on Occupational Safety and Health and the Third Annual NIOSH Scientific Symposium. See *CHEMICAL HAZARDS--Overviews*.

Reproductive Hazards. HRSA Contract. September 1980. Instructional package. 12 pp. and appendix. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information to guide clinicians in the delivery of better individual care to pregnant patients. Emphasis is placed on the use of deductive thinking to improve the odds of a successful healthy reproductive outcome in working patients. Includes learning objectives. Bibliography.

Reproductive Hazards in the Workplace. HRSA Grant. June 1981. 74 pp. Available from F.M. Bishop, Ph.D., Professor and Chairman, Community Medicine Department, The University of Alabama in Huntsville, School of Primary Medical Care, 201 Governors Drive, SW., Huntsville, AL 35801.

> Self-instructional package including case study. Designed for clinicians.

Selected NIOSH Reproductive Hazards Publications. NIOSH. N.D. 22 pp. Request free single copy from NIOSH.

> Lists and annotates selected NIOSH publications on reproductive hazards that can be purchased from GPO or NTIS. Order information included.

Smoking and Reproduction, Pregnancy, and the Newborn. See LITERATURE SEARCHES--National Library of Medicine.

Survey of Organic Air Pollutants that Have Been Tested for Carcinogenicity and Mutagenicity, A. See AIR POLLUTION.

Teratologic Assessment of Butylene Oxide, Styrene Oxide, and Methyl Bromide. M.R. Sikov et al. NIOSH. July 1981. 76 pp. DHHS (NIOSH) Publ. No. 81-124. NTIS No. PB81-168510. Request free single copy from NIOSH.

> Presents the results of an experiment performed to evaluate the developmental effects of inhalation exposure to butylene oxide, styrene oxide, and methyl bromide on rats and rabbits.

RESPIRATORY SYSTEM

Approach to Diffuse Pulmonary Disease, An. I.M. Freundlich. Radiological Society of North America. 175 slides, two 75-minute sound cassettes, and pamphlet. Contact Chief, Library Service, at local VA medical center.

> Presents a review for physicians, radiologists, and students. Deals with diffuse pulmonary disease characteristics, such as immune suppression, neoplasms, nodules, air space filling, hyperaeration, arterial hypertension, and interstitial disease.

Asthma and Allergies: An Optimistic Future. P. Young. NIAID. March 1980. 179 pp. NIH Publ. No. 80-388. Request free single copy from NIAID.

> Discusses the biomedical and social aspects of asthma and other allergic diseases. Includes a glossary.

Basic Cytopathology of the Respiratory Tract. B.A. Warren. Medcom, Inc. 1979. 108 slides, 60-minute sound cassette, and 2 guides. Contact Chief, Library Service, at local VA medical center.

> Details for the physician and medical student the most common cell types found in sputa and bronchial washings. General principles and new techniques of cytopathologic examination are emphasized.

Basic Data on Spirometry in Adults 25-74 Years of Age: United States, 1971-1975. R.J. O'Brien. Vital and Health Statistics, NCHS. Series 11. No. 222. 35 pp. DHHS Publ. No. (PHS) 81-1672. Request free single copy from NCHS.

> Presents basic data on forced respiratory function by age, sex, race, and smoking status, as evidenced by the findings from the forced expiratory spirogram test of the first National Health and Nutrition Examination Survey. Bibliography.

Bronchoscopic Features of Chronic Inflammation. J.E. Rayl. VA Center for Endoscopic Programs, Lake City, FL. 1980. 14-minute cassette. Contact Chief, Library Service, at local VA medical center.

> Identifies for medical students and physicians four bronchoscopic features frequently associated with chronic inflammation and changes in the features of chronic inflammation that might suggest the presence of carcinoma.

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Byssinosis: Clinical and Research Issues. National Academy of Sciences. 1982. 143 pp. Available from National Academy Press.

Examines current literature on identifying the agent or agents causing byssinosis and reviews methods for its diagnosis. Recommends epidemiologic investigations be undertaken to clarify the pulmonary impairment resulting from exposure to cotton or other dusts in the textile industry. Bibliography.

Carcinoma of the Lung. N. Pearlman and W. Robinson. Communications by Design. 1978 (Released 1980). 60-minute cassette. Contact Chief, Library Service, at local VA medical center.

Discusses for physicians the increase of cancer of the lung and four major types of lung cancer: epidermoid small cell; epidermoid large cell; adenocarcinoma; and bronchioalveolar. Includes question and answer session.

Carcinoma of the Lung. Radiological Society of North America. 1977. 175 slides and 45-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

Instructs physicians on topographic classification of bronchogenic carcinomas. Distinguishes benign from malignant lesions and primary from metastatic neoplasms.

Chronic Lung Disease. B.V. Branscomb. American College of Chest Physicians. 1975. 87 slides, three 35-minute sound cassettes, and workbook. Contact Chief, Library Service, at local VA medical center.

Explains to physicians and nurses the rehabilitation and management of the patient with chronic lung disease. Discusses patient workup, use of drugs and exercise, oxygen therapy, management of infection, and benefits of smoking cessation.

Chronic Obstructive Lung Disease. See LITERATURE SEARCHES--National Technical Information Service.

Chronic Obstructive Pulmonary Disease. Division of Lung Diseases, NHLBI. August 1981. 14 pp. NIH Publ. No. 81-2020. GPO No. 017-043-00106-1. Request free single copy from NHLBI.

Describes chronic obstructive pulmonary disease and chronic obstructive lung disease. Discusses two separate but closely related conditions, emphysema and chronic bronchitis.

Cisternography, Lung Imaging and Thrombosis Detection. E.V. Stabb, P.O. Alderson, and R.E. Coleman. Radiological Society of North America. 1978. 125 slides, three 90-minute sound cassettes, and guide. Contact Chief, Library Service, at local VA medical center.

Describes for physicians, radiologists, and medical students nuclear medicine techniques for studying cerebrospinal fluid dynamics, and evaluating venous thrombosis.

Clinical Simulations in Health Hazards of the Workplace. See CURRICULAR INSTRUCTION MODULES.

Coal Workers' Pneumoconiosis: Radiology and Pathology. See COAL INDUSTRY.

Criteria for a Recommended Standard: Occupational Exposure to Cotton Dust. See AGRICULTURE.

Criteria for a Recommended Standard: Occupational Exposure to Crystalline Silica. NIOSH. 1975. 132 pp. DHEW (NIOSH) Publ. No. 75-120. NTIS No. PB-246697. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to crystalline silica. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to crystalline silica; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Fibrous Glass. NIOSH. 1977. 203 pp. DHEW (NIOSH) Publ. No. 77-152. GPO No. 017-033-00213-4. NTIS No. PB-274195. Request free single copy from NIOSH.

Recommends a standard to protect workers from exposure to fibrous glass. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to fibrous glass; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Criteria for a Recommended Standard: Occupational Exposure to Logging from Felling to First Haul. NIOSH. 1976. 102 pp. DHEW (NIOSH) Publ. No. 76-188. NTIS No. PB-266411. Available from NTIS.

Recommends a standard to protect workers from exposure to logging processes from felling to first haul. Provides criteria for the recommended standard, including a literature review of the biologic effects of exposure to logging processes; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Current Intelligence Bulletin 31: Adverse Health Effects of Smoking and the Occupational Environment. NIOSH. February 5, 1979. 11 pp. DHEW (NIOSH) Publ. No. 79-122. Request free single copy from NIOSH.

Contains new information on the synergistic effects of smoking and exposure to occupational hazards that are not recognized or are greater than generally known. Reviews and evaluates information on smoking in an occupational environment. Bibliography.

Current Intelligence Bulletin 36: Silica Flour: Silicosis. NIOSH. June 30, 1981. 11 pp. DHHS (NIOSH) Publ. No. 81-137. Request free single copy from NIOSH.

Contains new information on occupational hazards of silica flour exposure that are not recognized or are greater than generally known. Reviews and evaluates information on occupational standards and exposures; toxicity, including case reports; chemical synonyms; and recommendations. Bibliography.

Determination of the Effects of Material from Alternate Energy Sources on the Upper Respiratory Tract Clearance Mechanism: Part I and Part II. D. Adalis. Health Effects Research Laboratory, EPA. February 1982. 75 pp. NTIS No. PB82-117037. Available from NTIS.

Presents the adverse effects of a variety of environmental substances on the clearance mechanisms of the upper respiratory tract using an in vitro hamster model.

Diagnosis and Assessment of Chronic Obstructive Pulmonary Disease. Health Sciences Learning Resource Center, University of Washington. 1980. 73 slides, 25-minute sound cassette, and guide. Contact Chief, Library Service, at local VA medical center.

Presents a self-instructional unit for physicians and nurses. On completion, the viewer should be able to recognize the medical/historical characteristics and physical findings in patients with chronic obstructive pulmonary disease (COPD); know the pertinent laboratory studies used to document the presence and severity of COPD; interpret the results of these laboratory tests; and use the information in this data base to reach a diagnosis of COPD and assess the degree of functional impairment.

Drug-Induced Pulmonary Disease. S.R. Roberts et al. Radiological Society of North America. 1977. 54 slides and 23-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

Discusses for physicians the radiographic and pathologic findings of pulmonary diseases produced by various drugs.

Dust Control in Rubber and Plastic Plants. See LITERATURE SEARCHES--National Technical Information Service.

Effects of Short-Term Intermittent Air Pollutants on Incidence and Severity of Acute Respiratory Disease: Data Collection and Quality Assurance. R.D. Flesh, M.L. Riha, and M.F. Miller. Health Effects Research Laboratory, EPA. August 1982. 265 pp. NTIS No. PB82-129479. Available from NTIS.

> Presents health data collected from a study that measured the acute effects on the respiratory system of short exposures every hour and day-long exposures to nitrogen dioxide alone and in combination with other pollutants. The study population was composed of families with children attending public elementary schools and living in four California South Coast Air Basin areas.

Environmental/Occupational Lung Disease. HRSA Grant. March 1981. 43 pp. Available from W.N. Rom, M.D., Rocky Mountain Center for Occupational and Environmental Health, Department of Internal Medicine, University of Utah, Salt Lake City, UT 84112.

> Contains a syllabus for clinicians on the pulmonary organ system. Pathophysiologic and radiographic findings of pneumoconiosis are discussed. Emphasis is on taking a chronologic occupational history and respiratory history related to environmental exposures. Includes learning objectives and bibliography.

Epidemiology and Natural Course of Chronic Obstructive Pulmonary Disease. American Thoracic Society. 1980. 63 slides and 36-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

> Discusses for physicians and medical students the distribution and causes of COPD and identifies high-risk patients.

Epidemiology of Respiratory Disease: Task Force Report. NHLBI. 1980. 244 pp. NIH Publ. No. 81-2019. Request free single copy from NHLBI.

> Summarizes the state of knowledge, problems, and needs in the epidemiology of respiratory disease. Contents include descriptions of research on statistical methodology, environmental and occupational agents, smoking, personal factors, asthma, chronic bronchitis and emphysema, and interstitial lung diseases. Bibliography.

Estimates of Pulmonary and Gastrointestinal Deposition for Occupational Fiber Exposures. NIOSH. April 1979. 84 pp. DHEW (NIOSH) Publ. No. 79-135. NTIS No. PB80-149644. Available from NTIS.

Presents the mathematical model of deposition of fibrous particles in the human respiratory system that was used to estimate pulmonary and gastrointestinal fiber deposition fractions for seven fiber types covering 19 industries or industrial operations. Estimates of deposition mass fractions are discussed in light of available epidemiologic data on exposure to fibrous materials. Bibliography.

Evaluation of Cotton Dust Control Systems, An. J.A. Gideon et al. NIOSH. August 1978. 32 pp. DHEW (NIOSH) Publ. No. 78-109. 6 pp. Request free single copy from NIOSH.

Presents information on elutriated cotton dust levels in the picking and garnetting areas of the Atlanta Federal Penitentiary. Includes suggested engineering controls and a bibliography.

Granulomatous Diseases of the Lung. American College of Radiology. 1976. 34-minute videocassette. Contact Chief, Library Service, at local VA medical center.

Discusses for physicians and medical students many granulomatous lung diseases. The pathophysiologic mechanisms underlying the radiographic appearance of the various entities are emphasized.

Inhalation Injury. See LITERATURE SEARCHES--National Library of Medicine.

Interstitial Diseases of the Lung. American College of Radiology. 1975. 28-minute videocassette. Contact Chief, Library Service, at local VA medical center.

Contains a brief review for physicians and medical students on the radiologic diagnosis of interstitial pulmonary disease. Presents data on the nature and anatomy of the pulmonary interstitium. Includes a discussion of the radiologic features that should lead to a diagnosis of interstitial disease and correlates that with underlying gross and microscopic pathology in individual cases.

Lung Cancer. See LITERATURE SEARCHES--National Technical Information Service.

Management of Chronic Obstructive Pulmonary Disease in Hospitals. D.J. Pierson. American Lung Association and American Thoracic Society. Component Committee on Learning Resources. 1981. 77 slides, 40-minute sound cassette, and workbook. Contact Chief, Library Service, at local VA medical center.

Intended for physicians, medical students, and nurses. Defines acute respiratory failure (ARF), differentiates between its different types, and explains the main physiologic mechanisms and the management of ARF in COPD.

Managing Secretions in Chronic Lung Disease. Milner-Fenwick, Inc. 1978. 10-minute 16 mm reel. Contact Chief, Library Service, at local VA medical center.

Shows how failure of the ciliary action and the cough mechanisms in chronic lung disease can be managed by means of bronchodilators, expectorants, and postural drainage.

New Light on Obstructive Lung Disease. Communications in Learning. 1976. 34 slides and 54-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

Describes for physicians the importance of early diagnosis of obstructive lung disease.

Newer Pulmonary Function Tests: The Early Detection of Lung Disease. Network for Continuing Medical Education. 1976. 13-minute cassette. Contact Chief, Library Service, at local VA medical center.

Demonstrates for physicians and internists the means of detecting early obstructive lung disease associated with cigarette smoking.

Obstructive Diseases. J.B. West. Audio Visual Medical Marketing. 1978. 50 slides, 53-minute sound cassette, and guide. Contact Chief, Library Service, at local VA medical center.

Summarizes for physicians the mechanisms of airway obstruction. Discusses chronic bronchitis, emphysema, asthma, and diseases with localized airway obstruction.

Occupational Diseases: Byssinosis. See LITERATURE SEARCHES--National Technical Information Service.

Occupational Respiratory Diseases. HRSA Contract. November 1980. 25 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

Provides information for clinicians on a broad range of occupationally related lung diseases. Nonspecific determinants of diseases, classification, and mechanical and immunologic defenses of exposed persons are discussed. Includes learning objectives and bibliography.

Other Diseases. J.B. West. Audio Visual Medical Marketing. 1978. 51 slides, 80-minute sound cassette, and guide. Contact Chief, Library Service, at local VA medical center.

Discusses for physicians occupational lung diseases and the interactions between the lung and the environment.

Pathology of Chronic Airflow Obstruction. W.M. Thurlbeck. 1977. 49 slides and 30-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

Discusses for physicians, medical students, pathologists, and nurses the morphology of chronic bronchitis, pulmonary emphysema, and the lesions found in the peripheral airways that commonly accompany these conditions.

Physical Assessment: Heart and Lungs. See CARDIOVASCULAR SYSTEM.

Pneumoconiosis. See LITERATURE SEARCHES--National Technical Information Service.

Pulmonary Technology. Task Force Report. Division of Lung Diseases, NHLBI. September 1981. 262 pp. NIH Publ. No. 81-2110. Request free single copy from NHLBI.

Prepared by the Task Force on Pulmonary Technology and constitutes part of the continuous developmental and long-range planning effort of the Division of Lung Diseases.

Respiratory and Immunologic Evaluation of Isocyanate Exposure in a New Manufacturing Plant. H. Weill et al. NIOSH. June 1981. 152 pp. DHHS (NIOSH) Publ. No. 80-125. NTIS No. PB82-154246. Request free single copy from NIOSH.

Presents the findings of a longitudinal study of the respiratory health of workers exposed to toluene diisocyanate. Bibliography.

Respiratory Carcinogenicity of Diesel Fuel Emissions. A.M. Shefner. Health Effects Research Laboratory, EPA. September 1981. 35 pp. NTIS No. PB81-230955. Available from NTIS.

Provides information relating to the potential respiratory carcinogenicity of diesel emission products. Emphasis on the Schneiber model for localized tumor induction, which offered the possibility of rapid determination of adverse effects.

Respiratory Care. J. Holohan et al. Communications by Design. 1980. 60-minute cassette. Contact Chief, Library Service, at local VA medical center.

Concentrates on formulating a comprehensive care approach for COPD patients. Includes a question and answer session.

Surgery, Anesthesia, and Chronic Obstructive Lung Disease. University of Michigan Medical Center. 1975. 60 slides, 16-minute sound cassette, and guide. Contact Chief, Library Service, at local VA medical center.

Explains to medical staff predisposing factors to respiratory complications following surgery, with interpretations of the results to identify COLD patients.

Survival for Cancers of the Respiratory System. Division of Cancer Cause and Prevention, NCI. Reprinted January 1982. 30 pp. NIH Publ. No. 82-1540. Request free single copy from NCI.

Contains two reprints from Cancer Patient Survival, Report No. 5 (DHEW Publ. No. (NIH) 77-992). The first is an introduction that explains the data and their sources and organization and provides summary observations. The second discusses cancers of the respiratory system and includes tabular and graphic data for the following sites: nose, nasal cavities, and middle ear; larynx; and lungs and bronchus.

Systemic Diseases Involving the Lung. C.T. Hvang. Medcom, Inc. 1976. 103 slides, 96-minute sound cassette, and script. Contact Chief, Library Service, at local VA medical center.

Presents for physicians and medical students a collection of X-rays of both common and rare pulmonary lesions. Discusses lung involvement in systemic fungal diseases, multiple myeloma, diabetes mellitus, amylodosis, histiocytoses, Goodpasture's syndrome, hemosiderosis, and von Recklinghausen's disease.

Systemic Fungal Infections. T.W. Williams, Jr. Medcom, Inc. 1978. 96 slides, 2 sound cassettes, and 2 booklets. Contact Chief of Library Services at local VA medical center.

> Provides physicians and medical students with a summary of systemic and pulmonary fungal infections, including histoplasmosis, blastomycosis, coccidioidomycosis, cryptococcosis, mucormycosis, and candidiasis. Bacteriologic and clinical findings of these diseases are discussed.

Toxicity of Fibers. See LITERATURE SEARCHES--National Technical Information Service.

Workshop on Environmentally Related Nononcogenic Lung Disease. Task Force on Environmental Cancer and Heart and Lung Disease. In progress. Contact Technical Resources, Inc., for additional information.

SCREENING

Behavioral Toxicology--Early Detection of Occupational Hazards. NIOSH. December 1976. 506 pp. NTIS No. PB-259322. Available from NTIS.

> Contains papers on methods for assessing the adequacy of occupational health standards and for quantifying and evaluating functional impairments in the worker, based on behavioral performance measures and neurophysiologic changes; the application of behavioral neurophysiologic indicators for the monitoring and early detection of potential occupational health and safety problems; and the ultimate establishment of occupational health and safety standards based on the preservation of behavioral functions and worker capabilities.

Cancer Screening and Diagnosis: An Annotated Bibliography of Public and Patient Education Materials. See CANCER.

Conceptual Framework for Occupational Health Surveillance, A. R. Spirtas et al. Division of Surveillance, Hazard Evaluations, and Field Studies, NIOSH. March 1978. 14 pp. DHEW (NIOSH) Publ. No. 78-135. Request free single copy from NIOSH.

> Explores the current state of the art in occupational health surveillance. Contains a flow diagram that shows how data can be combined to disseminate information on occupational health hazards. Derived information permits systematic identification of high-risk occupational groups, relates exposures to specific health outcomes, and prioritizes research needs. Bibliography.

Environmental Health. A Plan for Collecting and Coordinating Statistical and Epidemiologic Data. See HEALTH STATISTICS.

Focus on Cancer: Prevention and Early Detection. See CANCER.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Supplement 1. Chemicals and Industrial Processes Associated with Cancer in Humans. See CHEMICAL HAZARDS--Overviews.

Implications of Cost-Effectiveness Analysis of Medical Technology, The. Background Paper #2. Case Studies of Medical Technologies. Case Study #7. Allocating Costs and Benefits in Disease Prevention Programs: An Application to Cervical Cancer Screening. See HEALTH SERVICES.

Office Screening of Occupational Illness. HRSA Contract. September 1982. Instructional package. 25 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, PA 19129. (215) 842-6540.

> Contains information to assist clinicians in using a screening system in an office setting to determine a worker's general and specific occupational exposure, estimate exposure and risk, and select appropriate tests. Bibliography.

Report of the Conference on Medical Screening and Biological Monitoring for the Effects of Exposure in the Workplace, July 10-13, 1984. NIOSH/NCI/EPA. Contact Technical Resources, Inc., for information.

Screening. White House Conference on Breast Cancer, NCI. 1976. 95-minute videocassette and 2 self-assessment exams. Contact Chief, Library Service, at local VA medical center.

> Discusses radiation threshold levels. Presents data from the Hiroshima incident and clinical records of women who received repeated fluoroscopy for postpartum mastitis.

Screening and Detection of Colorectal Cancer. Consensus Development Conference Proceedings, June 26-28, 1978. D.R. Brodie, ed. Division of Cancer Control and Rehabilitation, NCI. November 1979. 287 pp. NIH Publ. No. 80-2075. Request free single copy from D.R. Brodie, M.D., NCI, Blair Building, Room 628, Bethesda, MD 20205. (301) 427-8648.

> Contains the proceedings of a conference that addressed the presence or absence of a scientific basis for establishing mass screening programs for the control of colorectal cancer. Recommendations are presented at the beginning of the proceedings.

Short-Term Screening Test for Quick Responses to Pollutants Where Health Effects Data Are Lacking. See DISEASE PREVENTION AND HEALTH PROMOTION.

SMOKING

Changes in Cigarette Smoking and Current Smoking Practices Among Adults: United States, 1978. Vital and Health Statistics of NCHS. September 19, 1979, No. 52. 16 pp. DHEW Publ. No. (PHS) 79-1250. Request free single copy from NCHS.

Presents summary statistics on smoking status and behavior for black and white persons in certain age groups by sex.

Cigarette Pollution Effects on Humans. See LITERATURE SEARCHES--National Technical Information Service.

Cigarette Smoking. See LITERATURE SEARCHES--National Technical Information Service.

Health Consequences of Smoking: Cancer, The. A Report of the Surgeon General. Office on Smoking and Health, PHS. 1982. 322 pp. GPO No. 017-001-00441-3. Request free single copy from the Office on Smoking and Health.

Presents a comprehensive evaluation of the relationship between cigarette smoking and cancer. Contains five parts: introduction and conclusions, biomedical evidence for determining causality, mechanisms of carcinogenesis, involuntary smoking and lung cancer, and cessation of smoking. Bibliography.

"Helping Smokers Quit" Kit (HSQK). NCI. Request free single copy from NCI.

Contains a complete packet of materials designed specifically for physicians to help their patients quit smoking. Each kit, containing enough materials for 50 patients, includes

(a) Helping Smokers Quit: A Guide for Physicians
(b) Why Do You Smoke?
(c) Calling It Quits
(d) What Happens after You Quit?
(e) Memo to You, Nurse
(f) Waiting Room Posters

"Let's Help Smokers Quit" Kit (LHSQK). NCI. Request free single copy from NCI.

A complete packet of materials designed specifically for dentists to help their smoking patients quit. Each kit, containing enough materials for 50 patients, includes

(a) Let's Help Smokers Quit: A Guide for the Dental Professional
(b) Why Do You Smoke?
(c) Smoking and Teeth
(d) Smoking and Oral Cancer
(e) Calling It Quits

(f) What Happens after You Quit?
(g) Patient's Progress Postcard
(h) Waiting Room Materials

dl-Menthol. See CANCER for carcinogenesis bioassay information.

Passive Smoking. See LITERATURE SEARCHES--National Library of Medicine.

Reduced Tar and Nicotine Cigarettes: Smoking Behavior and Health. National Academy of Sciences. 1982. 52 pp. Available from National Academy Press.

Presents health hazards of habitual cigarette smoking and assesses the effects of reduced tar and nicotine cigarettes. Examines epidemiologic studies of the health consequences of cigarette smoking, considers laboratory and field studies of smoking behavior, and identifies research needs on alternatives to smoking cessation.

Smoking and Health. An Annotated Bibliography of Public and Professional Education Materials. Cancer Information Clearinghouse, Office of Cancer Communications, NCI. April 1978. Reprinted November 1980. 82 pp. NIH Publ. No. 81-1841. NTIS No. HRP-0902261. Request free single copy from NCI.

Lists materials representing a variety of approaches for health education of smokers. Contains abstracts of publications from both government and private sources.

Smoking and Health Bulletin. Technical Information Center, Office on Smoking and Health, PHS. Issued bimonthly. NTIS No. HRP-0903252. Request free single copy from the Office on Smoking and Health.

Contains an author and subject index and abstracts of current journal articles on issues germane to smoking and health. Issued bimonthly; annual cumulative index no longer published.

Smoking and Reproduction, Pregnancy, and the Newborn. See LITERATURE SEARCHES--National Library of Medicine.

State and Local Programs on Smoking and Health. NHLBI. 1982. 88 pp. PHS. Publ. No. 82-50190. Request free single copy from NHLBI.

Presents descriptions of programs being conducted across the country to reduce the proportion of smokers in the American population and thus reduce the premature death and disability associated with cigarette smoking.

Tobacco--Its Role in Allergy and Immunity. NIAID. 1979. 32 pp. Reprinted from Smoking and Health: A Report of the Surgeon General, 1979. Request free single copy from NIAID.

Discusses the effect of tobacco and its products on the immune system and allergy-related problems.

STEEL INDUSTRY

Ferrous Smelting and Steel Manufacture. NIOSH. July 1980. 52 pp. NIOSH Contract 210-78-0019. NTIS No. PB81-147555. Available from NTIS.

> Contains summary data on known or suspected health effects, the extent of exposure, and the industrial importance of ferrous smelting and steel manufacturing.

Long-Term Mortality Experience of Steelworkers. C.K. Redmond et al. NIOSH. June 1981. 114 pp. DHHS (NIOSH) Publ. No. 81-120. NTIS No. PB82-174939. Request free single copy from NIOSH.

> Presents information on long-term, cause-specific mortality patterns of steel plant and coke oven workers. Discusses malignant neoplasms and nonmalignant respiratory diseases. Bibliography.

Mortality of Steelworkers Employed in Hot Jobs. NIOSH. August 1977. 135 pp. DHEW (NIOSH) Publ. No. 77-219. NTIS No. PB-274872. Available from NTIS.

> Investigates possible relationships between heat stress and mortality of steelworkers. Mortality patterns of workers in jobs falling into heat stress categories were analyzed. Bibliography.

Selected NIOSH Steel Manufacturing Publications. NIOSH. September 1982. 6 pp. Request free single copy from NIOSH.

> Lists and annotates selected NIOSH publications on steel manufacturing that can be purchased from GPO or NTIS. Order information included.

STRESS

Analysis of Job Stress in Coal Mining, An. See COAL INDUSTRY.

Consequences of Stress: The Medical and Social Implications of Prescribing Tranquilizers, The. Health Learning System. 1978. Contact Chief, Library Service, at local VA medical center.

> Discusses the diagnosis and management of stress. States the benefits and risks of providing counseling and pharmacologic intervention to the patient in the treatment of stress and gives statistics on tranquilizer use. Program qualifies for continuing education credit through the American Medical Association, the American Academy of Family Physicians, the American Osteopathic Association, and the American College of Obstetrics and Gynecology.

Criteria for a Recommended Standard: Working in Confined Spaces. NIOSH. 1980. 78 pp. DHEW (NIOSH) Publ. No. 80-106. GPO No. 017-033-00353-0. NTIS No. PB80-183015. Available from GPO and NTIS.

> Recommends a standard to protect workers who work in confined spaces. Provides criteria for the recommended standard, including a literature review of the biologic effects of working in confined spaces; environmental data on sampling and analysis and workplace exposure and control of hazards; information on work practices; and research needs. Bibliography.

Health and Behavior: Frontiers of Research in the Biobehavioral Science. See CARDIOVASCULAR SYSTEM.

Health Consequences of Shift Work. NIOSH. 1978. 140 pp. DHEW (NIOSH) Publ. No. 78-154. NTIS No. PB80-176563. Available from NTIS.

> Presents the results of a 30-month study on the effect of unconventional working hours--such as afternoon, night, and rotating shifts--on the psychologic and physiologic well-being of workers. In particular, this study deals with nurses and food processors.

New Developments in Occupational Stress--Proceedings of a Conference. NIOSH. 1980. 75 pp. DHHS (NIOSH) 81-102. GPO No. 017-033-00377-7. NTIS No. PB82-162256. Available from GPO and NTIS.

> Contains papers on a sociotechnical approach for dealing with stress in large organizations and a union-management collaborative program for occupational safety and health. Bibliography.

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Occupational Stress: The Hidden Hazard. HRSA Contract. September 1980. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

51-minute videotape.

Deals with stress on the job: the pathophysiology of stress, personal and workplace factors that cause stress, the effects of stress, and strategies for prevention and intervention.

Instructional package. 31 pp.

Provides information for clinicians concerning the effects of stress related to occupational hazards. Recognition of stress and its health effects and resulting illnesses are highlighted. Includes learning objectives and a sample questionnaire. Bibliography.

Proceedings of the Conference on Occupational Stress. November 3, 1977. Behavioral and Motivational Factors Branch, NIOSH. March 1978. 78 pp. DHEW (NIOSH) Publ. No. 78-156. GPO No. 017-033-00304-1. Available from GPO.

Contains papers dealing with occupational stress and its causes, health consequences of shiftwork, individual stress reduction programs, and NIOSH psychological stress studies.

Reducing Occupational Stress: Proceedings from a Workshop. NIOSH. 1978. 222 pp. DHEW (NIOSH) Publ. No. 78-140. GPO No. 017-033-00303-3. Available from GPO.

Examines the role of the health professional in stress management. Discusses organizational, legislative, and governmental stress management programs as well as preventive and remedial approaches to occupational stress.

Selected NIOSH Stress Publications. NIOSH. August 1982. 7 pp. Request free single copy from NIOSH.

Lists and annotates selected NIOSH publications on stress that can be purchased from GPO or NTIS. Order information included.

Stress Disorders: Why Use Biofeedback. J. Stoyva. Biomonitoring Applications, Inc. 1975. 30-minute sound cassette. Contact Chief, Library Service, at local VA medical center.

Highlights for physicians, nurses, and psychologists stress-induced shifts in disease patterns. Indicates needs for new, effective means to alter maladaptive behavior responses.

Twenty-Four Hour Workday: Proceedings of a Symposium on Variations in Work-Sleep Schedules, The. September 19-23, 1979. Division of Biomedical and Behavioral Science, NIOSH. July 1981. 61 pp. DHHS (NIOSH) Publ. No. 81-127. Request free single copy from NIOSH.

> Includes papers presented at a NIOSH-sponsored symposium on variations in work-sleep schedules. Discusses shift work, sleep loss and fragmentation of sleep schedules, and biologic rhythms. Health and social problems are also covered. Bibliography.

Work Related Stress: Recognition and Intervention. HRSA Grant. May 1982. 48 pp. Available from F.M. Bishop, Ph.D., Professor and Chairman, Community Medicine Department, The University of Alabama in Huntsville, School of Primary Medical Care, 201 Governors Drive, SW., Huntsville, AL 35801.

> Self-instructional package including case study. Designed for clinicians.

TEMPERATURE

Assessment of Deep Body Temperatures of Women and Hot Jobs. NIOSH. 1978. 103 pp. DHEW (NIOSH) Publ. No. 77-215. NTIS No. PB-274769. Available from NTIS.

> Contains results of a study comparing the responses of female and male industrial workers to heat stress. Bibliography.

Assessment of Deep Body Temperatures of Workers in Hot Jobs. NIOSH. 1977. 62 pp. DHEW (NIOSH) Publ. No. 77-110. NTIS No. PB-274705. Available from NTIS.

> Contains results of a study designed to determine the extent to which an individual's heat tolerance depends on residence in a semitropical climate, seasons, and job heat exposure.

Cancer Therapy by Hyperthermia. See LITERATURE SEARCHES--National Technical Information Service.

Cold Weather Stress on Humans. See LITERATURE SEARCHES--National Technical Information Service.

Hot Environments. NIOSH. 1980. 23 pp. DHHS (NIOSH) Publ. No. 80-132. GPO No. 017-033-00371-8. NTIS No. PB81-223919. Available from GPO and NTIS.

> Provides an overview of health hazards from working in hot environments. Cites precautions that should be taken to avoid excessive heat stress.

Hyperthermia and Radiation Effects. See LITERATURE SEARCHES--National Technical Information Service.

Hypothermia. See LITERATURE SEARCHES--National Technical Information Service.

Industrial Health Hazards Due to Atmospheric Factors. See LITERATURE SEARCHES--National Technical Information Service.

Mortality of Steelworkers Employed in Hot Jobs. See STEEL INDUSTRY.

Occupational Exposure to Hot Environments: Proceedings. NIOSH. 1976. 203 pp. DHEW (NIOSH) Publ. No. 76-100. GPO No. 017-033-00120-1. NTIS No. PB-266237. Available from GPO and NTIS.

> Contains a collection of papers concerned with heat stress in industry. Describes a heat stress standard, methodologies for assessing heat exposure, and results of laboratory and industry heat stress studies. Bibliography.

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Physical Hazards I: Heat and Cold. HRSA Contract. December 1982. 53 pp. Instructional package. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

Designed for clinicians dealing with occupational groups at risk of heat- and cold-related illness and injury. Discusses generic control measures and mechanisms for integrating patient history into chemical decisionmaking. Bibliography.

Proceedings of a NIOSH Workshop on Recommended Heat Stress Standards. NIOSH. 1981. 194 pp. DHHS (NIOSH) Publ. No. 81-108. GPO No. 017-033-00386-6. NTIS No. PB81-229726. Available from GPO and NTIS.

Explores approaches to the establishment of a simple, safe heat-stress standard. The proceedings contain the recommendations developed by the workshop participants. Bibliography.

TEXTILE AND DYE MANUFACTURING

2-Aminoanthraquinone. See CANCER for carcinogenesis bioassay information.

3-Amino-4-ethoxyacetanilide. See CANCER for carcinogenesis bioassay information.

3-Amino-9-ethylcarbazole, hydrochloride. See CANCER for carcinogenesis bioassay information.

1-Amino-2-methylanthraquinone. See CANCER for carcinogenesis bioassay information.

4-Amino-2-nitrophenol. See CANCER for carcinogenesis bioassay information.

11-Aminoundecanoic acid. See CANCER for carcinogenesis bioassay information.

Aniline hydrochloride. See CANCER for carcinogenesis bioassay information.

o-Anisidine hydrochloride. See CANCER for carcinogenesis bioassay information.

p-Anisidine hydrochloride. See CANCER for carcinogenesis bioassay information.

o-Anthranilic acid. See CANCER for carcinogenesis bioassay information.

Azobenzene. See CANCER for carcinogenesis bioassay information.

2-Biphenylamine hydrochloride. See CANCER for carcinogenesis bioassay information.

Caprolactam. See CANCER for carcinogenesis bioassay information.

Carcinogenicity and Metabolism of Azo Dyes, Especially Those Derived from Benzidine. NIOSH. 1980. 141 pp. DHHS (NIOSH) Publ. No. 80-119. NTIS No. PB81-171027. Available from NTIS.

Identifies jobs that have potential for exposure to dyestuffs and other known carcinogens. Summarizes a literature review, the epidemiologic experience of industries using azo dyestuffs, and the industrial hygiene surveys conducted are provided. Bibliography.

4'-(Chloroacetyl)-acetanilide. See CANCER for carcinogenesis bioassay information.

p-Chloroaniline. See CANCER for carcinogenesis bioassay information.

4-Chloro-o-phenylenediamine. See CANCER for carcinogenesis bioassay information.

2-Chloro-p-phenylenediamine sulfate. See CANCER for carcinogenesis bioassay information.

3-Chloro-p-toluidine. See CANCER for carcinogenesis bioassay information.

5-Chloro-o-toluidine. See CANCER for carcinogenesis bioassay information.

4-Chloro-o-toluidine hydrochloride. See CANCER for carcinogenesis bioassay information.

C.I. Acid Red 14. See CANCER for carcinogenesis bioassay information.

C.I. Direct Black 38. See CANCER for carcinogenesis bioassay information.

C.I. Direct Blue 6. See CANCER for carcinogenesis bioassay information.

C.I. Direct Brown 95. See CANCER for carcinogenesis bioassay information.

C.I. Disperse Yellow 3. See CANCER for carcinogenesis bioassay information.

m-Cresidine. See CANCER for carcinogenesis bioassay information.

p-Cresidine. See CANCER for carcinogenesis bioassay information.

Criteria for a Recommended Standard: Occupational Exposure to o-Tolidine. See CHEMICAL HAZARDS--o-Tolidine.

Current Intelligence Bulletin 24: Direct Blue 6, Direct Black 38, Direct Brown 95, Benzidine Derived Dyes. NIOSH. April 17, 1978. 11 pp. DHEW (NIOSH) Publ. No. 78-148. Request free single copy from NIOSH.

Contains new information on occupational hazards that are not recognized or are greater than generally known. Reviews and evaluates information on occupational hazards of Direct Blue 6, Direct Black 38, Direct Brown 95 exposure. Includes information on occupational standards and exposures, toxicity including case reports, chemical synonyms, and recommendations. Bibliography.

2,4-Diaminoanisole sulfate. See CANCER for carcinogenesis bioassay information.

Diarylanilide yellow. See CANCER for carcinogenesis bioassay information.

1,2-Dibromoethane. See CANCER for carcinogenesis bioassay information.

2,4-Dimethoxyaniline hydrochloride. See CANCER for carcinogenesis bioassay information.

2,4-Dinitrotoluene. See CANCER for carcinogenesis bioassay information.

Health Hazard Alert: Benzidine-, o-Tolidine-, and o-Dianisidine-Based Dyes. OSHA and NIOSH. December 1980. 15 pp. and appendixes. DHHS (NIOSH) Publ. No. 81-106. Request free single copy from NIOSH.

Summarizes the available information on metabolism and carcinogenicity of benzidine-, o-tolidine-, and o-dianisidine-based dyes and presents actions to reduce worker exposure to these dyes. Includes information on respirator use, production use, estimated number of workers exposed, and dye trade names. Bibliography.

Hydrazobenzene. See CANCER for carcinogenesis bioassay information.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Volume 16. Some Aromatic Amines and Related Nitro Compounds--Hair Dyes, Colouring Agents, and Miscellaneous Industrial Chemicals. See CHEMICAL HAZARDS--Overviews.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. See CHEMICAL HAZARDS--Overviews.

Volume 19. Some Monomers, Plastics, and Synthetic Elastomers, and Acrolein.

Volume 29. Some Industrial Chemicals and Dyestuffs.

Investigation of Selected Dye Carriers Used in Commercial Dyeing of Hydrophobic Fibers. K. Yeh and B.F. Smith. November 1983. NTIS No. PB83-247569. Available from NTIS.

> Presents the results of studies on the toxicities of dyebath discharges from atmospheric dyeing of polyester fabric with the commercial dye carriers, trichlorobenzene, biphenyl, and o-phenyl phenol. Biological testing and chemical analyses were done on the discharges of the dyebath systems. Commercial dyeing was simulated in the laboratory.

Melamine. See CANCER for carcinogenesis bioassay information.

4,4'-Methylenebis(N,N-dimethyl)benzenamine. See CANCER for carcinogenesis bioassay information.

2-Methyl-1-nitroanthraquinone. See CANCER for carcinogenesis bioassay information.

1,5-Napthalenediamine. See CANCER for carcinogenesis bioassay information.

5-Nitro-o-anisidine. See CANCER for carcinogenesis bioassay information.

4-Nitroanthranilic acid. See CANCER for carcinogenesis bioassay information.

p-Nitrosodiphenylamine. See CANCER for carcinogenesis bioassay information.

5-Nitro-o-toluidine. See CANCER for carcinogenesis bioassay information.

p-Phenylenediamine dihydrochloride. See CANCER for carcinogenesis bioassay information.

1-Phenyl-3-methyl-5-pyrazolone. See CANCER for carcinogenesis bioassay information.

N-Phenyl-p-phenylenediamine. See CANCER for carcinogenesis bioassay information.

Proflavin hydrochloride. See CANCER for carcinogenesis bioassay information.

Special Occupational Hazard Review for Benzidine-Based Dyes. NIOSH. January 1980. 60 pp. DHEW (NIOSH) Publ. No. 80-109. GPO No. 017-033-00354-8. Request free single copy from NIOSH.

> Evaluates available information on the carcinogenicity and metabolism of benzidine-based dyes. Describes monitoring methods for diazonium salts and azo dyes in air and for benzidine in urine. Includes information on production, imports, use, estimated number of workers exposed, and dye trade names. Bibliography.

3-Sulfolene. See CANCER for carcinogenesis bioassay information.

Tetrachloroethylene. See CANCER for carcinogenesis bioassay information.

4,4'-Thiodianiline. See CANCER for carcinogenesis bioassay information.

2,5-Toluenediamine sulfate. See CANCER for carcinogenesis bioassay information.

o-Toluidine hydrochloride. See CANCER for carcinogenesis bioassay information.

Tris(2,3-dibromopropyl) phosphate. See CANCER for carcinogenesis bioassay information.

VIBRATION

Morbidity Patterns Among Heavy Equipment Operators Exposed to Whole-Body Vibration--1975 Followup to a 1974 Survey. NIOSH Survey. R.C. Spear et al. NIOSH. November 1976. 43 pp. and appendixes. DHEW (NIOSH) Publ. No. 77-120. Request free single copy from NIOSH.

> Analyzes work histories of workers in the construction industry, with particular emphasis placed on comparisons between jobs involving exposure versus no exposure to whole-body vibration. Designed to test the extent to which whole-body vibration could account for the observed increases in claims for the following major diseases among workers exposed the longest: ischemic heart disease, metabolic diseases, bone and joint diseases, and male genital diseases.

Physical Hazards II. Noise and Vibration. See NOISE.

Relationships Between Whole-Body Vibration and Morbidity Patterns Among Interstate Truck Drivers. NIOSH Survey. G.J. Gruber. NIOSH. November 1976. 52 pp. DHEW (NIOSH) Publ. No. 77-167. Request free single copy from NIOSH.

> Presents studies that have been performed to test the hypothesis that certain physical disorders develop with undue frequency among interstate truck drivers and that some of this excess morbidity is due to the whole-body vibration factor of their job. Provides information obtained by extracting and comparing morbidity data available in the periodic certification examination records for active interstate truck drivers and active air traffic controllers. Discusses metabolic, musculoskeletal, digestive, respiratory, and circulatory disorders.

Vibration Syndrome. NIOSH. 1982. Available from M. Striley, NIOSH, Division of Training and Manpower Development, 4676 Columbia Parkway, Cincinnati, Ohio. Preview copies are also available.

Part 1. 30-minute videotape.

> Describes for the medical professional the hazards of occupational hand-arm vibration exposure, the physics of vibration, symptomatology assessment, and treatment of vibration syndrome.

Part 2. 20-minute videotape.

> Reviews studies that have been conducted by NIOSH on the subject of occupational injury. Produced from an in-house seminar presentation.

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Vibration White Finger Disease in U.S. Workers Using Pneumatic Chipping and Grinding Hand Tools--I. Epidemiology. NIOSH. 1982. 183 pp. DHHS (NIOSH) Publ. No. 82-118. Request free single copy from NIOSH.

Discusses the health effects of using pneumatic chipping and grinding tools. Presents analyses of a questionnaire and medical examination data.

WORKERS COMPENSATION

Industrial Characteristics of Persons Reporting Morbidity During the Health Interview Surveys Conducted in 1969-1974: An Exploratory Review. R. Kaminski and R. Spirtas. NIOSH. August 1980. 68 pp. DHHS (NIOSH) Publ. No. 80-123. Request free single copy from NIOSH.

> Examines morbidity with respect to employment. Summarizes information on disability, medical care usage, and disease conditions with respect to the industrial characteristics of the interviewees. Proportions and morbidity ratios are presented for the purposes of comparison. Bibliography.

Occupational Characteristics of Disabled Workers. Division of Surveillance, Hazard Evaluations, and Field Studies, NIOSH, and Division of Disability Studies, SSA. July 1980. 29 pp. DHHS (NIOSH) Publ. No. 80-145. Request free single copy from NIOSH.

> Provides a reference for epidemiologic investigations of occupational morbidity. Contains statistical data on occupational disabilities occurring between 1969 and 1972. Identifies specific occupational groups, age, sex, race, and diagnosis of primary disabling conditions. Bibliography. Microfiche included.

Physician Evaluation of Impairment/Disability. HRSA Contract. September 1982. Instructional package. 43 pp. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Concerned with the physician's role in assessing disability. Describes methods of evaluation and provides case studies and discussion questions. Deals specifically with workers compensation and social security disability payments. Bibliography.

Workers Compensation. HRSA Contract. September 1980. Instructional package. 28 pp. and appendix. Available from K. Rest, MPA, Assistant Director, Occupational Health Program, Department of Community and Preventive Medicine, Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. (215) 842-6540.

> Provides information for clinicians concerning the history and purpose of workers compensation and outlines steps to follow to aid patients in filing a claim. Issues associated with determining the work-relatedness of disease are discussed. Includes learning objectives and listings of compensation Agencies. Bibliography.

APPENDIX A

SOURCES FOR OBTAINING PUBLICATIONS AND AUDIOVISUAL MATERIALS

APPENDIX A

SOURCES FOR OBTAINING PUBLICATIONS AND AUDIOVISUAL MATERIALS

Centers for Disease Control
Public Inquiries
1600 Clifton Road, NE.
Atlanta, Georgia 30333
(404) 329-3534

Department of Health and Human Services
Public Affairs
Office of the Assistant Secretary for Health
200 Independence Avenue, SW.
Washington, D.C. 20201
(202) 472-5663

Department of Labor
Bureau of Labor Statistics
441 G Street, NW.
Washington, D.C. 20212
(202) 523-1208

Department of Labor
Occupational Safety and Health Administration
Publication Office, Room N4401
Third and Constitution Avenues, NW.
Washington, D.C. 20210
(202) 523-9667

Environmental Protection Agency
Office of Pesticides and Toxic Substances
TSCA Assistance Office
401 M Street, SW.
Washington, D.C. 20460
(202) 554-1404
(800) 424-9065

Environmental Protection Agency
Public Inquiries Center
401 M Street, SW.
Washington, D.C. 20460
(202) 382-7550

Food and Drug Administration
Technical Information Staff (HFX-28)
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-3532

Government Printing Office
Superintendent of Documents
Washington, D.C. 20402
(703) 783-3238

International Cancer Research
Data Bank Program
National Cancer Institute
Westwood Building, Room 10A18
Bethesda, Maryland 20205
(301) 496-7403

National Academy Press
2101 Constitution Avenue, NW.
Washington, D.C. 20418
(202) 334-3113

National Cancer Institute
Office of Cancer Communications
Public Inquiries Section
Building 31, Room 10A18
9000 Rockville Pike
Bethesda, Maryland 20205
(301) 496-5583

National Center for Health Statistics
Scientific and Technical Information Branch
Room 1-57 Center Building
3700 East-West Highway
Hyattsville, Maryland 20782
(301) 436-8500

National Health Information Clearinghouse
Post Office Box 1133
Washington, D.C. 20013-1133
(800) 336-4797 toll free
(703) 522-2590 in Virginia

National Heart, Lung, and Blood Institute
Publications Section
Public Inquiries and Reports Branch
Building 31, Room 4A11
9000 Rockville Pike
Bethesda, Maryland 20205
(301) 496-4236

National Institute of Allergy
and Infectious Diseases
Information Office
Building 31, Room 7A32
9000 Rockville Pike
Bethesda, Maryland 20205
(301) 496-5717

National Institute of Environmental
Health Services
Information Office
See National Toxicology Program

National Institute for Occupational Safety
and Health
Publications Dissemination
Division of Standards Development
and Technology Transfer
4676 Columbia Parkway
Cincinnati, Ohio 45226
(513) 684-4287

National Library of Medicine
Office of Inquiries and Publication
Management
8600 Rockville Pike
Bethesda, Maryland 20209
(301) 496-6095

National Toxicology Program
Public Information Office
P.O. Box 12233 MD B2-04
Research Triangle Park, North Carolina 27709
(919) 541-3991

National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161
(703) 487-4650

Oak Ridge Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Office of Technology Assessment
Publishing Office
U.S. Congress
Washington, D.C. 20510
(202) 224-8996

Office on Smoking and Health
Technical Information Center
Parklawn Building, Room 116
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-1690

Pan American Health Organization
Pan American Sanitary Bureau
Regional Office of the World Health Organization
525 23rd Street, NW.
Washington, D.C. 20037
(202) 861-3200

Technical Resources, Inc.
10215 Fernwood Road, Suite 408
Bethesda, Maryland 20817
(301) 493-5300

Training Resources Center (HFX-73)
Division of Training Support
National Center for Devices and Radiological Health
Food and Drug Administration
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-2554

Veterans Administration
Library Division, 142D
Interlibrary Loan
810 Vermont Avenue, NW.
Washington, D.C. 20420
(202) 389-3121

World Health Organization
Distribution and Sales Service
1211 Geneva 27
Switzerland

or to obtain single and bulk copies of individual publications (not subscriptions)

World Health Organization
Publication Centre USA
49 Sheridan Avenue
Albany, New York 12210

Appendix B

ORGANIZATIONAL PROFILES

Centers for Disease Control (CDC)

The Centers for Disease Control is one of the six Agencies constituting the U.S. Public Health Service. As part of the Public Health Service, CDC is responsible for performing investigations into the control and prevention of infectious and vector-borne acute and chronic diseases and conditions, certain environmentally related chronic diseases, and occupational health and safety problems. The Centers also provide support in the basic areas of epidemiology, disease surveillance, laboratory science, and training to local, state, national, and international disease prevention efforts. The six operating units within CDC are

- Center for Environmental Health
- Center for Health Promotion and Education
- Center for Infectious Diseases
- Center for Prevention Services
- Center for Professional Development and Training
- National Institute for Occupational Safety and Health (see separate profile).

As an example of the specific activities undertaken by the operating units, the Center for Environmental Health is concerned mainly with assisting state and local agencies in responding to special environmental health problems. Outbreaks of acute disease caused by exposure to toxic chemicals or physical agents, whether manmade or natural in origin, are studied, as are chronic illnesses or conditions presumably resulting from long-term exposure to polluted air, water, or solid waste. The research ranges from field investigations of case clusters or multiple case families to long-term case control or epidemiologic cohort studies of such health problems as cancer, respiratory disease, and birth defects. The Center has also been authorized, through Superfund legislation, to work with the Environmental Protection Agency in determining exposures of and adverse health effects in populations living near hazardous waste sites.

Department of Agriculture (USDA)

The Department of Agriculture was created by an act of Congress in 1862 and achieved Cabinet rank 25 years later. Today, USDA is organized into the following program areas:

- Economics
- International Affairs and Commodity Programs
- Food and Consumer Services
- Marketing and Inspection Services
- Small Community and Rural Development
- Natural Resources and Environment
- Science and Education.

Research and education are important foci of USDA activities. The Agricultural Research Service and the land-grant college system of state agricultural experimental stations are responsible for most of the agricultural research and development programs. Current agricultural research priorities are designed to achieve doubled food production by the year 2000, which would be necessary to feed the forecast population.

The Extension Service, which has offices in nearly every county in the Nation, is the educational arm of USDA. It provides educational information and advice in major areas of agricultural production and marketing, natural resources, family living, food and nutrition, 4-H and youth programs, and community and rural development

The USDA maintains one of the world's largest collections of books and periodicals on agriculture and related subjects at the National Agricultural

Library in Beltsville, Maryland. Automated information retrieval services are also available.

Each USDA agency provides information about its activities to farmers, industry, and consumers. This information is in the form of technical and popular publications, current information to the press, radio, and television, and audiovisual materials, including exhibits, photographs, graphics, and motion pictures.

Department of Energy (DOE)

The Department of Energy was established in the executive branch by the Department of Energy Organization Act (P.L. 95-91) on August 4, 1977. This reorganization of the energy functions within the Federal Government was intended to ensure the coordinated and effective administration of national energy policy and programs that are balanced with the need to protect the environment.

DOE's FY84 programs, by primary mission, are in energy, strategic petroleum reserve, general science, defense activities, and support activities. Environment, health, and safety factors are closely integrated into energy research and development activities.

The goals of the Environment, Safety, and Health program are to develop policies and standards for safety in all Agency processes and programs; ensure public safety and environmental protection at all Agency facilities; and ensure Departmental compliance with environmental statutes, regulations, and standards. The Biological and Environmental Research program develops a comprehensive research program to obtain baseline data for determining health and environmental effects associated with the production and use of energy resources.

Department of Labor (DOL)

The Bureau of Labor, created in 1884, became the core of the Department of Labor, which evolved to Cabinet-level status in 1913. The Department's responsibilities include protecting the health and safety, employment and pension rights of working people; requiring payment of a minimum wage and overtime rates after 40 hours of work a week; prohibiting discrimination in the workplace for any reason except the ability to do the job; providing training, unemployment insurance and workers' compensation; strengthening free collective bargaining; and collecting, analyzing, and publishing labor statistics.

The primary activities of DOL's Agencies are as follows:

- Employment and Training Administration--Provides job training and placement through apportionment of funds to state agencies
- Employment Standards Administration--Enforces labor standards, including minimum wage, overtime pay, child labor provisions, prevailing wages, and migrant worker provisions
- Occupational Safety and Health Administration--Issues and enforces workplace safety and health standards and promotes and provides training, education, and consultation to foster cooperation among employers, employees, state and Federal Government (see also separate profile in this Appendix)
- Mine Safety and Health Administration--Works with management and labor to prevent mine accidents and illnesses and promote mine safety
- Labor-Management Services Administration--Enforces laws relevant to labor unions and pension and other employee benefit plans

- Bureau of International Labor Affairs--Helps develop international economic and trade policies affecting American workers

- Women's Bureau--Seeks solutions to the problems of women workers

- Bureau of Labor Statistics--Collects, analyzes, and publishes data on labor economics

- Veterans' Employment and Training Service--Helps veterans obtain employment or reemployment.

Environmental Protection Agency (EPA)

In 1970 a Presidential order consolidated 15 Federal environmental programs into a single Environmental Protection Agency, with the mission to protect and enhance the quality of the environment by establishing and enforcing standards and regulations that ensure the public health and welfare and guarantee that property and ecological systems are safe from damage by environmental pollutants. Much of the enabling legislation authorizing EPA to perform that comprehensive role was contained in the following Acts and their various amendments, dating from 1963 to 1981: Clean Air; Clean Water; Safe Drinking Water; Resource Conservation and Recovery; Federal Insecticide, Fungicide, and Rodenticide; Toxic Substances Control; Noise Control; and Comprehensive Environmental Response, Compensation, and Liability (Superfund).

In dealing with problems of environmental pollution and exposure to toxic chemicals, radiation, and noise, EPA is responsible for monitoring and analyzing the nation's environment, conducting research and demonstration projects, and assisting in the development and implementation of state and local pollution control programs. The Offices largely responsible for the conduct of these activities are Research and Development (ORD), Pesticides and Toxic Substances (OPTS), Air, Noise, and Radiation (OANR), Solid Waste and Emergency Response, and Water.

Health research in ORD focuses on the following objectives

- Developing improved methods of risk assessment
- Evaluating dose-response relationships
- Developing test methods.

Means of addressing these objectives include studies of carcinogenesis and organ toxicity, determination of biologic endpoints, short-term bioassays, and epidemiologic research. Similar techniques are being used in OPTS to assess the risks and benefits of pesticide use and the potential environmental hazards of manufacturing and using toxic substances. The OANR works to establish the harmful effects of pollutants and thereby control their release into the environment through community epidemiologic, clinical exposure, and animal toxicity studies.

Food and Drug Administration (FDA)

The U.S. Public Health Service's Food and Drug Administration, which originated with the Pure Food and Drug Act of 1906, has jurisidiction over foods, pharmaceuticals, including cosmetics, and medical equipment, including both diagnostic and therapeutic devices. The use of such diverse products is regulated by the FDA through direct investigation of their safety and effectiveness and promulgation of standards affecting contaminant (in foods, cosmetics, and drugs) and emission (for radiation equipment) levels. Protection of the consumer from hazardous chemicals and radiation is the overall objective of the various FDA programs.

Six major subdivisions within FDA are responsible for conducting research and controlling product application:

- Center for Drugs and Biologics
- Center for Devices and Radiological Health
- Center for Toxicological Research
- Bureau of Foods
- Bureau of Veterinary Medicine
- Executive Director of Regional Operations.

FDA research involves studies of toxic effects and mechanisms, including carcinogenicity, development of analytical methods for measuring chemical contaminants, and long-term or epidemiologic studies. Assessment of risk associated with the use of new foods, drugs, cosmetics, and therapies (chemical, biological, or physical) is usually based on review of petitions for marketing the products, for which manufacturers must supply supporting evidence (toxicologic and exposure data) of their safety and analysis for the presence of inadvertent contaminants.

Among its major activities are the ensuring of the safety and efficacy of drugs, biologicals and medical devices, registration of blood banks, and the promotion of quality, nutritional adequacy, and integrity of the nation's food supply through research and quality control programs. Continual surveillance and inspection of manufacturers to monitor compliance to its regulations and education programs to warn consumers of adulterated, mislabeled, or illegal products represent other facets of the FDA's activities.

Health Resources and Services Administration (HRSA)

The Health Resources and Services Administration, one of the six Public Health Service Agencies within the Department of Health and Human Services, was formed on September 1, 1982, through the combination of the Health Services Administration, Health Resources Administration, and the Office of Health Maintenance Organizations.

Among HRSA's responsibilities are the following:

- Provide direct, personal health services to American Indians, Alaskan Natives, and other designated beneficiaries
- Support efforts to improve the education, distribution, use, supply, and quality of the nation's health personnel
- Support efforts to integrate health services delivery programs with public and private health financial programs, including health maintenance organizations
- Improve the use of health resources
- Provide technical assistance for modernizing or replacing health care facilities.

HRSA consists of the Bureau of Health Care Delivery Assistance, Bureau of Health Maintenance Organizations and Resources Development, Bureau of Health Professions, and the Indian Health Service.

Through the Bureau of Health Professions, HRSA encourages the inclusion of environmental health educational topics into the curricula of schools that train physicians, dentists, nurses, and allied health personnel. Specifically targeted grants and contracts, directly or indirectly, provide incentive to schools to expand instruction in health promotion, public and community health, as well as environmental health.

International Agency for Research on Cancer (IARC)

In 1971, the International Agency for Research on Cancer, a part of the World Health Organization, initiated a program to evaluate the carcinogenic risk of chemicals to humans. In 1980, the program was expanded to include evaluation of the carcinogenic risk associated with employment in specific occupations.

The results of the program are published in the form of monographs, which include critical reviews of the data on carcinogenicity for groups of chemicals to which humans are known to be exposed. The monographs summarize the evidence for the carcinogenicity of individual chemicals. International working groups of experts in chemical carcinogenesis help to evaluate these data in terms of human risk and indicate where additional research is needed. The critical analyses of the data are intended to assist national and international authorities in formulating decisions concerning preventive measures. However, no recommendations are given concerning legislation because it is considered that such decisions are best made by individual governments.

Since the program began in 1971, 31 volumes have been published in the IARC Monograph Series, and approximately 680 separate chemical substances have been evaluated. Each volume is printed in 4,000 copies and distributed by the WHO publications service.

National Academy of Sciences (NAS)

The National Academy of Sciences is a Federally chartered private corporation created by an act of Congress signed by President Lincoln on March 3, 1863. NAS provides independent advice to the Government on matters of science and technology. Within the corporate structure of NAS are the National Academy of Engineering and the Institute of Medicine, which are independent in terms of membership and policies but share in the overall management of studies in progress.

The National Research Council (NRC) is the operating arm of NAS and is divided into eight major Assemblies and Commissions. Currently, about 800 committees and panels within the eight Assemblies and Commissions are conducting studies. The costs of each study are met through contracts with the Government and private foundations.

The Institute of Medicine was organized under the NAS charter in 1970 to study policy matters pertaining to public health and the provision of health services to all sectors of society. The Institute's mission complements that of the Assembly of Life Sciences, within the NRC, which is concerned with medical research.

Each NAS study results in a formal report of the deliberations of the study panel or committee and includes conclusions and recommendations. All reports are available to the public.

National Cancer Institute (NCI)

Since its creation in 1937, the National Cancer Institute has supported research and demonstration programs aimed toward discovering the causes of and therapeutic approaches to cancer. In focusing on the prevention and cure of cancer, NCI (named one of the National Institutes of Health in 1944) is responsible for several programs to identify environmental carcinogens, assess the relationships between exposure to these substances and cancer incidence, perform research, and educate. These efforts were both expanded and intensified by the establishment of the National Cancer Program (NCP) in 1971, which placed the Institute in a coordinating role for activities relating to cancer. Created at that time were a National Cancer Advisory Board, to assist the NCI Director; a network of comprehensive cancer centers, for clinical research, training, and demonstration of advanced diagnostic and treatment techniques; and a group of cancer control programs, to interact with state and local agencies in activities directed toward reducing cancer incidence, morbidity, and mortality.

Among the various subdivisions of NCI are the

- Office of Cancer Communications (OCC)
- Division of Cancer Biology and Diagnosis
- Division of Cancer Treatment
- Division of Cancer Prevention and Control (DCPC, formerly Division of Resources, Centers, and Community Activities)
- Division of Cancer Etiology (DCE, formerly Division of Cancer Cause and Prevention).

DCE is responsible for planning and conducting the Institute's program of coordinated research (intra and extramural) on cancer. This research involves laboratory work, natural history studies, and epidemiologic studies. DCPC supports the cancer control programs, the cancer communication network comprising centers across the United States, and the newly initiated cancer control research units and science programs that are to study the effectiveness of intervention on cancer incidence, morbidity, and mortality in defined populations. OCC communicates a wide spectrum of information on causes, diagnosis, and treatments to both the public and health professionals. The major information systems are the Cancer Information Service of the Cancer Control Program and the newly introduced Physician Data Query program.

Substantial support has been given to research in the areas of carcinogenesis and cancer diagnosis and treatment. Recent work of the NCP has emphasized prevention of cancer through behavior modification and other measures. Toward that end, the Program focuses on such lifestyle factors as smoking habits, diet, alcohol use, and occupation and specific environmental attributes.

National Center for Health Statistics (NCHS)

The National Center for Health Statistics, within the Department of Health and Human Services, has been given the overall mission of

- Collecting, analyzing, and disseminating national health statistics through the development and maintenance of comprehensive data systems
- Conducting research in survey and statistical methodology
- Coordinating the Department's health statistics efforts.

The Center serves as a focus for national health data and provides the health community, both public and private, with a complete range of data necessary to the assessment of current (and future) health status and services.

NCHS operates 14 major programs that collect morbidity and mortality data. These serve as resources for other Federal Agencies attempting to establish a definite relationship between exposure to environmental factors and disease occurrence. Types of information available include health and nutritional status, hospital discharges, ambulatory medical care, and births and deaths. Two of NCHS's most widely used files are the National Death Index and the National Health Interview Survey.

National Heart, Lung, and Blood Institute (NHLBI)

In 1948, the National Heart Institute was established to support a national research and training program concerned with the causes, diagnosis, treatment, and prevention of heart disease. By 1976, the focus, as well as the name, of the Institute had been expanded to encompass heart, lung, and blood diseases. The National Heart, Lung, and Blood Institute, one of three bureaus (with NLM and NCI) within NIH, funds and coordinates research on risk factors, the causative aspects of environmental conditions, the epidemiology of cardiovascular and pulmonary disease, and control of the disease process.

The Institute's responsibilities encompass the following major and distinct activities:

- Planning, conducting, and supporting an integrated intra- and extramural program of research, clinical trials, investigations, and demonstrations relating to the causes, prevention, diagnosis, and treatment of heart, lung, and blood diseases
- Conducting research on drugs and devices that might prevent and treat these diseases
- Conducting studies on the clinical use of blood and the management of blood resources
- Developing educational activities for health professionals and the public.

The Divisions of Heart and Vascular Diseases, Lung Diseases, Blood Diseases and Resources, and the Office of Prevention, Education, and Control direct these various activities.

NHLBI has directly studied environmental pollutants to determine their role in producing heart disease; epidemiologic research has included studies of trace elements in and fluoridation of drinking water and occupational hazards. Pulmonary disease research has included study of the effects of toxic chemicals, tobacco products, ozone, nitrogen oxides, and airborne metals on lung structure and function; comparative analyses of genetic and environmental influences and of high and low pollution levels on lung disease; study of the occurrence of subclinical respiratory disease and the epidemiology of chronic lung disease; and the pathogenesis of such diseases as mineral pneumoconiosis.

National Institute of Allergy and Infectious Diseases (NIAID)

The National Institute of Allergy and Infectious Diseases, first known as the National Microbiological Institute, was established in 1948. NIAID conducts and supports research relevant to the prevention, diagnosis, and treatment of allergic, immunologic and infectious diseases.

Specifically, NIAID conducts studies on the following:

- Genetic control, maturation, characteristics, and manipulation of the immune system
- Disorders and derangements of the immune system, including asthma, immune deficiency states, and autoimmunity
- Role of the immune system in the course of chronic diseases, such as arthritis
- Etiology, epidemiology, and pathogenesis of all types of infection
- Diagnosis, treatment, and prevention of all types of infection
- Role of nucleic acid recombination in medical research.

National Institute of Environmental Health Sciences (NIEHS)

The National Institute of Environmental Health Sciences serves as a national center for scientific research in environmental health. This research provides information crucial to the

- Recognition and identification of environmental factors deleterious to the public health
- Quantification of the effects, and an understanding of toxicity mechanisms.

Such information is essential to Agencies responsible for preventing and treating environmentally related diseases and for regulating exposure to hazardous substances. NIEHS was formally named a National Institute of Health in 1969, three years after its original establishment.

As the principal Federal Agency supporting research on the effects of toxic environmental agents on human health, the Institute's responsibilities involve provision of a scientific data base, advanced scientific methodologies, and trained scientists. NIEHS supports training programs and funds basic and applied research in environmental toxicology, pathology, mutagenesis and carcinogenesis, and epidemiology in four distinct program areas.

Through grants and research training programs, the Extramural Program focuses on the detection and measurement of toxic environmental agents and the biologic response to exposure. The program also sponsors university-based Environmental Health Science and Marine and Freshwater Biomedical Centers that study such problems as air, water, and food pollution; occupational health and safety; heavy metal toxicity; agricultural chemical hazards; cancer, birth defects, behavioral anomalies, and cardiovascular and pulmonary diseases; toxic and host defense mechanisms; and the influence of age, nutrition, and other lifestyle factors on injury and disease. The Intramural Program is concerned with the molecular, cellular, tissue, and organ effects of toxic agents. The Biometry and Risk Assessment Program conducts basic and applied research in risk assessment, biostatistics, and epidemiology and provides statistical, data processing, and data management support to other programs. Test methods development and validation, measurements of toxic potential, and testing of chemicals for adverse effects are the responsibility of the Toxicology Research and Training Program, which is essentially the NIEHS contribution to the National Toxicology Program (NTP).

NIEHS also is responsible for administering and coordinating the NTP, which comprises all relevant toxicology activities of NIH's National Cancer Institute, FDA's National Center for Toxicological Research, CDC's National Institute for Occupational Safety and Health, as well as NIEHS. The Program was established in 1978 as a cooperative effort among the above DHHS Agencies to integrate their research and testing activities. Granted permanent status in 1981, NTP is responsible for testing chemicals potentially toxic to the public health and developing and validating test protocols that satisfy regulatory requirements.

National Institute for Occupational Safety and Health (NIOSH)

The Occupational Safety and Health Act of 1970 established two agencies with complementary roles in ensuring worker health and safety: the Occupational Safety and Health Administration (OSHA) within the Department of Labor and the National Institute for Occupational Safety and Health within the Department of Health and Human Services. NIOSH, a component of the Centers for Disease Control (see separate profile) in the Public Health Service, has responsibility for research and standards development, and OSHA promulgates and enforces such standards. These responsibilities were divided to keep the two activities separate and inviolate. In 1977, NIOSH also was given the supportive role for the Mine Safety and Health Administration.

NIOSH conducts a program of directed research and surveillance to identify, evaluate, control, and disseminate information concerning occupational safety and health problems. In meeting these goals, NIOSH's responsibilities have involved mainly occupational hazard research, technical assistance, and manpower development. The research performed is of two distinct forms:

- Study of the literature and other information to develop criteria for recommended standards for occupational exposure, occupational hazard assessments, and health hazard alerts
- Applied research on the interactions of chemical and physical agents with organisms, monitoring techniques and analytical methods, control technology, and medical screening and diagnosis.

NIOSH also provides varied technical assistance to employers, employees, universities, Government Agencies, and health and safety professionals through such activities as certification of protective and measurement equipment and health hazard evaluations. Training courses and programs are offered in all areas of occupational safety and health. The above activities are administered through 10 regional offices and the following seven Divisions:

- Safety Research
- Respiratory Disease Studies
- Standards Development and Technology Transfer
- Surveillance, Hazard Evaluations and Field Studies
- Biomedical and Behavioral Science
- Physical Science and Engineering
- Training and Manpower Development.

National Library of Medicine (NLM)

The National Library of Medicine was originally established in 1836 as the Library of the Army Surgeon General's Office. Its mission was later expanded to make its services available to all physicians, and in 1956 Congress placed it within the Public Health Service.

NLM is the world's largest research library in a single scientific and professional field, with holdings of more than three million books, journals technical reports, theses, microfilms, and pictorial and audiovisual materials. NLM programs include computer-based literature retrieval services, grant support for medical libraries, communications research and development, toxicology information services, development of audiovisual materials for health science education, and a wide range of published bibliographies, indexes, and catalogs.

NLM established the computer-based Medical Literature Analysis and Retrieval System (MEDLARS) to provide rapid bibliographic access to its vast store of biomedical information for research scientists, clinicians, and other health professionals. In addition to MEDLINE (MEDLARS on-line), NLM has 15 specialized data bases for cataloging and serials information, toxicological and chemical information, audiovisual materials, and information related to cancer and other specialized areas of health and disease.

Literature searches (individualized bibliographies produced by MEDLARS) are reprinted for distribution by NLM at no charge. A list of available searches appears each month in Index Medicus and Abridged Index Medicus.

National Technical Information Service (NTIS)

The National Technical Information Service, an Agency of the U.S. Department of Commerce, is the central source for the public sale of Federal Government-sponsored research, development, and engineering reports, foreign technical reports, and other reports prepared by national and local government agencies, their contractors, or grantees. It is also the central source for Federally-generated, machine-processable data files and manages the Federal Software Center for internal Government distribution. By law, NTIS is required to be self-supporting.

All of the more than 1.2 million titles in NTIS's collection are permanently available for sale, either in hard copy or microfiche form. Approximately 70,000 new reports of research are added to the collection annually.

Special products and services available from NTIS include the following:

- Summaries of current research reports published in a wide variety of weekly newsletters, a biweekly journal, an annual index, and various subscription formats for Federal Agencies
- NTIS Bibliographic Data Base, which may be searched on-line through organizations that maintain the data base for public use through contractual relationships with NTIS or through leasing the data base from NTIS
- Published Searches, which are bibliographies that include the more timely abstracts covering about 3,500 subject areas
- Subject searches of NTIS and various commercial data bases
- Selected Research in Microfiche, which is available through subscription, automatically provides full texts of documents that meet continuing individual requirements.

Oak Ridge Associated Universities (ORAU)

Oak Ridge Associated Universities is a private, not-for-profit association of more than 50 colleges and universities. It is a contractor of the U.S. Department of Energy, conducting research and educational programs in the areas of energy, health, and the environment for DOE, other private and governmental organizations, and ORAU's member institutions.

The Medical and Health Sciences Division conducts research on biomedical problems associated with diseases of the respiratory, vascular, and gastrointestinal systems. The emphasis of the Division's five major programs is cancer related to occupational exposure to chemicals and ionizing radiation. The Division offers predoctoral and postdoctoral training programs.

The Medical and Health Sciences Division also maintains the Radiation Emergency Assistance Center/Training Site for DOE as a demonstration and training unit for medical preparedness in radiation accidents.

Occupational Safety and Health Administration (OSHA)

The Occupational Safety and Health Administration was created within the Department of Labor by the Occupational Safety and Health Act of 1970. OSHA's primary functions are the development, promulgation, and enforcement of occupational safety and health standards. Specifically, OSHA is to

- Encourage employers and employees to reduce workplace hazards and implement new or improved existing safety and health programs
- Conduct research, directly or through grants and contracts, relevant to occupational safety and health
- Establish "separate but dependent responsibilities and rights" for employers and employees for the achievement of better safety and health conditions
- Maintain a reporting and recordkeeping system to monitor job-related injuries and illnesses
- Establish training programs to increase the number and competence of occupational safety and health personnel
- Develop mandatory job safety and health standards and enforce them effectively
- Provide for the development, analysis, evaluation, and approval of state occupational safety and health programs.

OSHA standards fall into the major categories of general industry, maritime, construction, and agriculture. All OSHA standards are published in the Federal Register and the Code of Federal Regulations (CFR Title 29, Part 1900-1999). In addition, the OSHA Subscription Service (available only from the Superintendent of Documents) provides all standards, interpretations, regulations, and procedures.

Office of the Assistant Secretary for Health (OASH)

The Assistant Secretary for Health, appointed by the President and confirmed by the Senate, serves as the principal advisor to the Secretary of Health and Human Services on health and health-related matters. In addition, the Assistant Secretary for Health directs the Public Health Service, the principal health agency of the Federal Government.

Staff offices are established within OASH to carry out management functions and certain important programs and special health initiatives. These offices include the

- National Center for Health Statistics
- Office of Disease Prevention and Health Promotion
- National Center for Health Services Research
- Office of Adolescent Pregnancy Programs
- Office on Smoking and Health
- President's Council on Physical Fitness and Sports.

Office of Disease Prevention and Health Promotion (ODPHP)

The Office of Disease Prevention and Health Promotion is a staff office within the Office of the Assistant Secretary for Health, Department of Health and Human Services. It was established in recognition of the growing support for health promotion as a national health strategy.

ODPHP stimulates and coordinates public and private efforts to provide preventive health services, protect the environment, and promote the adoption of healthy lifestyles. The plan for achieving specified health goals was outlined in Healthy People: The Surgeon General's Report on Health Promotion and Disease Prevention (1979). In working toward these goals, ODPHP interacts with other Federal Agencies, state and local governments, business, industry, and professional and voluntary organizations.

ODPHP emphasizes the effective use of resources and provides assistance to the national disease prevention initiative in the following categories:

- Policy formation and strategy development
- Coordination
- Technical assistance
- Information and education.

Office of Technology Assessment (OTA)

Congress authorized the establishment of the Office of Technology Assessment in 1972 in recognition of the rapid expansion of technology and the need to anticipate, understand, and consider the impact of its applications on the natural and social environment. OTA is a nonpartisan analytical support agency that provides Congress with objective analysis of major public policy issues related to scientific and technological change. It deals with issues relating to national security, technology transfer, international trade, health, energy and material resources, wastes, air and water, agriculture, and new developments.

A 12-member bipartisan board, consisting of 6 Senators and 6 Representatives, governs OTA and appoints the Director. The Board also appoints an Advisory Council of 10 public members who are eminent in science, technology, and engineering. OTA has an in-house staff of professionals who have advanced training primarily in the physical, life, and social sciences and engineering. Additional expertise is drawn from the private sector.

OTA works directly with and for committees of Congress. The majority of OTA studies are comprehensive indepth assessments. OTA also responds to immediate congressional needs by providing briefings, testimony, and interim reports and conducting workshops. OTA works with other congressional support agencies to coordinate activities, avoid duplication of effort, and exchange information.

After approval by the Director and the Technology Assessment Board, OTA assessments are distributed to all Members of Congress and then released to the public. OTA assessments are available from the Government Printing Office. Some reports have also been reprinted by commercial publishers.

Office on Smoking and Health

The Office on Smoking and Health (formerly the National Clearinghouse for Smoking and Health), within the Public Health Service, is concerned with the health consequences of tobacco use. Established in 1978, the Office provides leadership in education and research and serves as a clearinghouse for public and technical information on smoking and health.

The Office on Smoking and Health maintains a Technical Information Center, which contains over 40,000 technical reports on smoking and health, and provides an inquiry and reference service, computer search and retrieval, and periodic and special publications.

Pan American Health Organization (PAHO)

The Pan American Health Organization, originated in 1902, is an international health agency and the Regional Office for the Americas of the World Health Organization (WHO). PAHO promotes and coordinates the efforts of its 37 member Governments to foster physical and mental health, lengthen life, and prevent disease.

The PAHO member countries have adopted a formal plan for achieving health for all by the year 2000. This goal is to be achieved by making primary, affordable health care available to everyone. The member countries have identified priority health areas and developed strategies for improving health conditions.

PAHO works with member countries in the following program areas:

- Health Systems Development
- Health Services Delivery
- Health Manpower
- Health Technology Development
- Environmental Health
- Veterinary Public Health
- Food and Nutrition
- Tropical Diseases
- Maternal and Child Health
- Health of Adults and Workers' Health.

Veterans Administration (VA)

The Veterans Administration was established by Executive Order on July 21, 1930, to assume responsibility for all veterans' programs. Today, it is the largest independent Federal Agency. The Administrator of Veterans Affairs is appointed by and reports directly to the President.

The VA hospital system, the largest in the United States, is comprised of 172 medical centers and 226 outpatient clinics. Veterans with injuries or illnesses incurred, contracted, or aggravated in military service receive highest priority for admission to VA hospitals.

The VA conducts the largest coordinated health professions education and training effort of its kind in the United States. It is affiliated with more than 1,000 educational institutions, and nearly 100,000 students each year receive some or all of their clinical training in VA facilities. Both undergraduate and graduate students are trained in approximately 50 recognized health professions and occupations. The VA also provides a variety of audiovisual products and services in support of clinical, research, and education programs.

In addition to health care, education, and scientific research activities, the VA administers many other benefit programs, including home loan and education assistance; on-the-job training; farm cooperative training; vocational rehabilitation services and assistance; special education assistance to eligible widows and war orphans; dependency and indemnity compensation for survivors; and death benefits.

APPENDIX C

NATIONAL CANCER INSTITUTE CANCER RESEARCH CENTERS

APPENDIX C

NATIONAL CANCER INSTITUTE
CANCER RESEARCH CENTERS

Since the early 1960s, the National Cancer Institute has conducted a Cancer Centers Program to provide grants for support of multidisciplinary programs in cancer research at educational and research institutions in the United States. Enactment of the National Cancer Act of 1971 gave further impetus to this effort through its provisions for strengthening existing centers and supporting the establishment of new ones.

Cancer centers have developed in a number of different organizational settings: some are independent, free-standing institutional entities; others are under the auspices of universities, often involving several colleges; and still others are consortia or multi-institutional in nature. Although a cancer center needs a certain minimum number of ongoing research programs, existing centers vary greatly in size and breadth of programs. The centers have developed from existing areas of strength at the parent institutions into coordinated multidisciplinary programs of several types:

- Laboratory Cancer Research Centers--centers engaged *only* in laboratory research;
- Clinical Cancer Research Centers--centers engaged *only* in clinical research;
- Comprehensive Cancer Research Centers--centers engaged in *both* laboratory and clinical research.

ALABAMA

UNIVERSITY OF ALABAMA IN BIRMINGHAM COMPREHENSIVE CANCER CENTER*
University Station
Birmingham, Alabama 35294
(205) 934-5070
Dr. Albert F. LoBuglio, Director

ARIZONA

UNIVERSITY OF ARIZONA CANCER CENTER**
University of Arizona
College of Medicine
Tucson, Arizona 85724
(602) 626-6044
Dr. Sydney E. Salmon, Director

CALIFORNIA

ARMAND HAMMER CENTER FOR CANCER BIOLOGY***
The Salk Institute
Post Office Box 85800
San Diego, California 92138
(619) 453-4100 Ext. 386
Dr. Walter Eckhart, Director

CITY OF HOPE RESEARCH INSTITUTE**
1450 East Duarte Road
Duarte, California 91010
(213) 357-9711 Ext. 2705
Dr. Charles Mittman, Director
Cancer Research Center

JONSSON COMPREHENSIVE CANCER CENTER*
University of California, Los Angeles
Louis Factor Health Sciences Building
10833 Le Conte Avenue
Los Angeles, California 90024
(213) 825-1532/5268
Dr. Richard J. Steckel, Director

CALIFORNIA (Continued)

KENNETH NORRIS, JR., CANCER RESEARCH INSTITUTE*
University of Southern California Comprehensive Cancer Center
2025 Zonal Avenue
Los Angeles, California 90033
(213) 224-6416
Dr. Brian E. Henderson, Interim Director

LA JOLLA CANCER RESEARCH FOUNDATION***
10901 North Torrey Pines Road
La Jolla, California 92037
(619) 455-6480
Dr. William H. Fishman, Director
Cancer Research Center

NORTHERN CALIFORNIA CANCER PROGRAM**
1801 Page Mill Road
Building B, Suite 200
Post Office Box 10144
Palo Alto, California 94303
(415) 497-5877
Dr. Saul A. Rosenberg, Director

SCRIPPS CLINIC AND RESEARCH FOUNDATION***
10666 North Torrey Pines Road
La Jolla, California 92037
(619) 455-8085
Dr. F. M. Huennekens, Director
Specialized Cancer Center

UNIVERSITY OF CALIFORNIA SCHOOL OF MEDICINE CANCER CENTER**
La Jolla, California 92093
(619) 294-6930
Dr. John Mendelsohn, Director

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*	Comprehensive Cancer Center	(20)
**	Clinical Cancer Center	(21)
***	Laboratory Cancer Center	(15)

CONNECTICUT

YALE UNIVERSITY COMPREHENSIVE CANCER CENTER*
333 Cedar Street
New Haven, Connecticut 06510
(203) 785-4095
Dr. Jack W. Cole, Director

DISTRICT OF COLUMBIA

HOWARD UNIVERSITY HOSPITAL CANCER RESEARCH CENTER*
2400 Sixth Street, NW.
Washington, D.C. 20059
(202) 636-7697
Dr. Jack E. White, Director

VINCENT T. LOMBARDI CANCER RESEARCH CENTER*
Georgetown University Medical Center
3800 Reservoir Road, NW.
Washington, D.C. 20007
(202) 625-7066
Dr. John F. Potter, Director

FLORIDA

COMPREHENSIVE CANCER CENTER FOR THE STATE OF FLORIDA*
University of Miami Hospital & Clinics
1475 Northwest 12th Avenue
Post Office Box 016960 (D8-4)
Miami, Florida 33101
(305) 545-7707 Ext. 203
Dr. C. Gordon Zubrod, Director

HAWAII

CANCER CENTER OF HAWAII**
University of Hawaii at Manoa
1236 Lauhala Street
Honolulu, Hawaii 96813
(808) 548-8415/8416
Dr. Lawrence H. Piette, Director

ILLINOIS

ILLINOIS CANCER COUNCIL*
(Includes the institutions listed and several other health organizations)

ILLINOIS CANCER COUNCIL*
36 South Wabash Avenue, Suite 700
Chicago, Illinois 60603
(312) 346-9813
Dr. Shirley B. Lansky, Acting Director

NORTHWESTERN UNIVERSITY CANCER CENTER*
Health Sciences Building
303 East Chicago Avenue
Chicago, Illinois 60611
(312) 266-5250
Dr. Nathaniel I. Berlin, Director

UNIVERSITY OF CHICAGO CANCER RESEARCH CENTER*
905 East 59th Street
Chicago, Illinois 60637
(312) 962-6180
Dr. John E. Ultmann, Director

INDIANA

PURDUE UNIVERSITY CANCER CENTER***
Pharmacy Building
West Lafayette, Indiana 47907
(317) 494-1388
Dr. D. James Morre, Director

IOWA

UNIVERSITY OF IOWA CANCER CENTER**
College of Medicine
20 Medical Laboratories
Iowa City, Iowa 52242
(319) 353-6595
Dr. Richard L. DeGowin, Director

KENTUCKY

McDOWELL CANCER NETWORK, INC.**
915 South Limestone Street
Lexington, Kentucky 40536
(606) 233-6541
Dr. Gilbert H. Friedell
Executive Director

MARYLAND

JOHNS HOPKINS ONCOLOGY CENTER*
600 North Wolfe Street, Room 157
Baltimore, Maryland 21205
(301) 955-8822
Dr. Albert H. Owens, Jr.
Center Director

MASSACHUSETTS

DANA-FARBER CANCER INSTITUTE*
44 Binney Street
Boston, Massachusetts 02115
(617) 732-3555
Dr. Emil Frei III, Director

MASSACHUSETTS INSTITUTE OF TECHNOLOGY***
Room El 7-113
77 Massachusetts Avenue
Cambridge, Massachusetts 02139
(617) 253-6401
Dr. Salvador E. Luria, Director

TUFTS-NEW ENGLAND MEDICAL CENTER**
Post Office Box 842
171 Harrison Avenue
Boston, Massachusetts 02111
(617) 956-5406
Dr. Douglas J. Marchant, Director
The Cancer Institute

WORCESTER FOUNDATION FOR
EXPERIMENTAL BIOLOGY***
222 Maple Avenue
Shrewsbury, Massachusetts 01545
(617) 842-8921
Dr. Thoru Pederson, Director
Cancer Center

MICHIGAN

COMPREHENSIVE CANCER CENTER OF
METROPOLITAN DETROIT*
110 East Warren Street
Detroit, Michigan 48201
(313) 833-1088
Dr. Michael J. Brennan, Director

MINNESOTA

MAYO COMPREHENSIVE CANCER CENTER*
200 First Street, SW.
Rochester, Minnesota 55901
(507) 284-2511
Dr. Charles G. Moertel, Director

MISSOURI

WASHINGTON UNIVERSITY SCHOOL OF
MEDICINE***
660 South Euclid Avenue
St. Louis, Missouri 63110
(314) 454-2843
Dr. Donald C. Shreffler, Director
Center for Basic Cancer Research

NEW HAMPSHIRE

NORRIS COTTON CANCER CENTER**
Dartmouth-Hitchcock Medical Center
Hanover, New Hampshire 03755
(603) 646-5505
Dr. O. Ross McIntyre, Director

NEW YORK

ALBERT EINSTEIN COLLEGE OF MEDICINE**
1300 Morris Park Avenue
Bronx, New York 10461
(212) 430-2302/792-2233
Dr. Harry Eagle, Director
Cancer Research Center

AMERICAN HEALTH FOUNDATION***
320 East 43rd Street
New York, New York 10017
(212) 953-1900
Dr. Ernst L. Wynder
President and Medical Director

COLUMBIA UNIVERSITY CANCER CENTER*
College of Physicians & Surgeons
701 West 168th Street
New York, New York 10032
(212) 694-3647
Dr. Harold S. Ginsberg, Acting Director

GRACE CANCER DRUG CENTER***
Roswell Park Memorial Institute
666 Elm Street
Buffalo, New York 14263
(716) 845-5759
Dr. Enrico Mihich, Director

MEMORIAL SLOAN-KETTERING CANCER CENTER*
1275 York Avenue
New York, New York 10021
(212) 794-6561
Dr. Paul Marks, President

MT. SINAI SCHOOL OF MEDICINE**
Fifth Avenue at 100th Street
New York, New York 10029
(212) 650-6361
Dr. James F. Holland, Chairman
Department of Neoplastic Diseases

NEW YORK UNIVERSITY MEDICAL CENTER**
550 First Avenue
New York, New York 10016
(212) 340-5349
Dr. Vittorio Defendi, Director
Cancer Center

NEW YORK (Continued)

NEW YORK UNIVERSITY MEDICAL CENTER***
550 First Avenue
New York, New York 10016
(212) 340-5280
Dr. Arthur C. Upton, Director
Institute of Environmental Medicine

ROSWELL PARK MEMORIAL INSTITUTE*
666 Elm Street
Buffalo, New York 14263
(716) 845-5770
Dr. Gerald P. Murphy
Institute Director

UNIVERSITY OF ROCHESTER CANCER CENTER**
601 Elmwood Avenue, Box 704
Rochester, New York 14642
(716) 275-4865
Dr. Robert A. Cooper, Jr., Director

NORTH CAROLINA

BOWMAN GRAY SCHOOL OF MEDICINE**
300 South Hawthorne Road
Winston-Salem, North Carolina 27103
(919) 748-4606
Dr. Robert L. Capizzi, Director
Oncology Research Center

DUKE UNIVERSITY MEDICAL CENTER*
Durham, North Carolina 27710
(919) 684-2282
Dr. William W. Shingleton, Director
Comprehensive Cancer Center

UNIVERSITY OF NORTH CAROLINA**
Box 30, MacNider Building 202H
Chapel Hill, North Carolina 27514
(919) 966-1183 or 3036
Dr. Joseph S. Pagano, Director
Cancer Research Center

OHIO

CASE WESTERN RESERVE UNIVERSITY HOSPITAL***
2074 Abington Road
Cleveland, Ohio 44106
(216) 444-3522
Dr. Earle C. Gregg, Professor
Department of Radiology

OHIO STATE UNIVERSITY CANCER RESEARCH CENTER*
410 West 12th Avenue, Suite 302
Columbus, Ohio 43210
(614) 422-5022
Dr. David S. Yohn, Director

PENNSYLVANIA

FELS RESEARCH INSTITUTE***
Temple University Medical School
3420 North Broad Street
Philadelphia, Pennsylvania 19140
(215) 221-4312
Dr. Peter N. Magee, Director

FOX CHASE CANCER CENTER*
7701 Burholme Avenue
Philadelphia, Pennsylvania 19111
(215) 728-2781
Dr. John R. Durant, President

PENNSYLVANIA STATE UNIVERSITY COLLEGE OF MEDICINE***
Hershey, Pennsylvania 17033
(717) 534-8253
Dr. Fred Rapp, Director
Specialized Cancer Research Center

UNIVERSITY OF PENNSYLVANIA CANCER CENTER*
7 Silverstein Pavilion
3400 Spruce Street
Philadelphia, Pennsylvania 19104
(215) 662-3910
Dr. Richard A. Cooper, Director

WISTAR INSTITUTE OF ANATOMY AND BIOLOGY***
36th Street at Spruce
Philadelphia, Pennsylvania 19104
(215) 243-3703
Dr. Hilary Koprowski, Director

PUERTO RICO

PUERTO RICO CANCER CENTER**
University of Puerto Rico
Medical Sciences Campus
General Post Office Box 5067
San Juan, Puerto Rico 00936
(809) 751-6242
Dr. Angel A. Roman-Franco, Director

RHODE ISLAND

ROGER WILLIAMS GENERAL HOSPITAL**
825 Chalkstone Avenue
Providence, Rhode Island 02908
(401) 456-2070
Dr. Paul Calabresi, Chairman
Department of Medicine
Brown University

TENNESSEE

ST. JUDE CHILDREN'S RESEARCH HOSPITAL**
332 North Lauderdale
Memphis, Tennessee 38101
(901) 522-0301
Dr. Alvin M. Mauer, Director

TEXAS

UNIVERSITY OF TEXAS MEDICAL BRANCH CANCER CENTER**
Galveston, Texas 77550
(713) 765-2981
Dr. John J. Costanzi, Director

UNIVERSITY OF TEXAS SYSTEM CANCER CENTER*
M.D. Anderson Hospital and
Tumor Institute
6723 Bertner Avenue
Houston, Texas 77030
(713) 792-6000
Dr. Charles A. LeMaistre, President

VERMONT

VERMONT REGIONAL CANCER CENTER**
University of Vermont
1 South Prospect Street
Burlington, Vermont 05401
(802) 656-4414
Dr. Irwin H. Krakoff, Director

VIRGINIA

MEDICAL COLLEGE OF VIRGINIA/VIRGINIA COMMONWEALTH UNIVERSITY CANCER CENTER**
MCV Box 37
Richmond, Virginia 23298
(804) 786-9322/9323/0448
Dr. Walter Lawrence, Jr., Director

WASHINGTON

FRED HUTCHINSON CANCER RESEARCH CENTER*
1124 Columbia Street
Seattle, Washington 98104
(206) 292-7545
Dr. Robert W. Day, Director

WISCONSIN

McARDLE LABORATORY FOR CANCER RESEARCH***
University of Wisconsin
450 North Randall Avenue
Madison, Wisconsin 53706
(608) 262-2177
Dr. Henry C. Pitot, Director

UNIVERSITY OF WISCONSIN CLINICAL CANCER CENTER*
600 Highland Avenue
Madison, Wisconsin 53792
(608) 263-8610
Dr. Paul P. Carbone, Director

APPENDIX D

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH EDUCATIONAL RESOURCE CENTERS

APPENDIX D

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH EDUCATIONAL RESOURCE CENTERS

To provide a comprehensive approach to meeting the needs for occupational safety and health manpower, the National Institute for Occupational Safety and Health (NIOSH), through a program of grants, has funded Educational Resource Centers (ERCs). Presently, with 15 ERCs in operation, each of the ten regions of the Department of Health and Human Services is covered by at least one Center.

The goal of the ERC program is to provide a mechanism for combining and expanding existing activities and to coordinate multidiscipline and multilevel training and continuing education in occupational safety and health.

The Centers provide full and part-time long-term training for occupational physicians, occupational health nurses, industrial hygienists, and safety personnel. Programs are also offered in fields such as industrial toxicology, biostatistics, epidemiology, and ergonomics. Short-term training and continuing education courses are also a vital part of ERC activities. These endeavor to maintain and upgrade the competence of occupational safety and health professionals already practicing in the field and to provide for training in occupational safety and health to other professionals concerned with workplace design and operation.

In addition, the ERCs have outreach programs to assist other institutions or agencies within their regions to develop occupational safety and health training activities. This is accomplished by providing consultation and curriculum materials.

For further information, contact the ERC nearest you.

Educational Resource Centers

ALABAMA EDUCATIONAL RESOURCE CENTER
University of Alabama at Birmingham
School of Public Health
Medical Center, University Station
Birmingham, Alabama 35294
(205) 934-6080 (FTS 8-229-1000)
Vernon E. Rose, Dr. P.H., Director

ARIZONA EDUCATIONAL RESOURCE CENTER
University of Arizona
Arizona Health Sciences Center
1145 North Warren--ACOSH
Tuscon, Arizona 85724
(602) 626-6835
Clifford Crutchfield, Ph.D., Acting Director

CALIFORNIA EDUCATIONAL RESOURCE CENTER--NORTHERN
University of California, Berkeley
206 Earl Warren Hall
Berkeley, California 94720
(415) 642-0761
Robert C. Spear, Ph.D., Director

CALIFORNIA EDUCATIONAL RESOURCE CENTER--SOUTHERN
University of California, Irvine
Department of Community and Environmental Medicine
Irvine, California 91717
(714) 833-6269
B. Dwight Culver, M.D., Director

CINCINNATI EDUCATIONAL RESOURCE CENTER
University of Cincinnati
Institute of Environmental Health
3223 Eden Avenue
Cincinnati, Ohio 45267
(513) 872-5701
Raymond S. Suskind, M.D., Director

HARVARD EDUCATIONAL RESOURCE CENTER
Department of Environmental Health Sciences
Harvard School of Public Health
665 Huntington Avenue
Boston, Massachusetts 02115
(617) 732-1260
Richard R. Monson, M.D., Director

ILLINOIS EDUCATIONAL RESOURCE CENTER
University of Illinois
School of Medicine
Post Office Box 6998
Chicago, Illinois 60680
(312) 996-2591
Bertram W. Carnow, M.D., Director

JOHNS HOPKINS EDUCATIONAL RESOURCE CENTER
Johns Hopkins University
School of Hygiene and Public Health
615 North Wolfe Street
Baltimore, Maryland 21205
(301) 955-3900/3720
Morton Corn, Ph.D., Director

MICHIGAN EDUCATIONAL RESOURCE CENTER
University of Michigan
Department of Industrial and Operations Engineering
2260 S. G. Brown Laboratory
Ann Arbor, Michigan 48109
(313) 763-2245 (FTS 8-963-2245)
Don B. Chaffin, Ph.D., Director

MINNESOTA EDUCATIONAL RESOURCE CENTER
University of Minnesota
School of Public Health
1162 Mayo Memorial
420 Delaware Street, SE.
Minneapolis, Minnesota 55455
(612) 373-8080
Robert O. Mulhausen, M.D., Director

NEW YORK/NEW JERSEY EDUCATIONAL RESOURCE CENTER
Mt. Sinai School of Medicine
One Gustave Levy Place
New York, New York 10029
(212) 650-6174
Irving J. Selikoff, M.D., Director

NORTH CAROLINA EDUCATIONAL RESOURCE CENTER
109 Conner Drive
Professional Village
346 A, Suite 1101
Chapel Hill, North Carolina 27514
(919) 962-2101
David S. Fraser, Sc.D., Director

TEXAS EDUCATIONAL RESOURCE CENTER
The University of Texas Health Science Center
at Houston
School of Public Health
Post Office Box 20186
Houston, Texas 77025
(713) 792-7450
Edward Fairchild, Ph.D., Director

UTAH EDUCATIONAL RESOURCE CENTER
Rocky Mountain Center for Occupational
and Environmental Health
University of Utah Medical Center
DFCM Room BC 106
Salt Lake City, Utah 84132
(801) 581-8719
William N. Rom, M.D., Director

WASHINGTON EDUCATIONAL RESOURCE CENTER
University of Washington
Department of Environmental Health SC-34
Seattle, Washington 98195
(206) 543-4383
John T. Wilson, Jr., M.D., Director

APPENDIX E

NATIONAL LIBRARY OF MEDICINE ON-LINE DATA BASES

APPENDIX E

NATIONAL LIBRARY OF MEDICINE ON-LINE DATA BASES

Medical Literature Analysis and Retrieval System (MEDLARS)

For additional information contact:

MEDLARS Management Section
Bibliographic Services Division
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20209
(301) 496-6193 or (800) 638-8480

MEDLARS, the National Library of Medicine's (NLM) computer system, can be accessed by computer terminals connected to the central computer facility at NLM in Bethesda, Maryland. MEDLARS is available through a nationwide NLM network of centers at more than 1,900 universities, medical schools, hospitals, Government Agencies, and commercial organizations. The retrieved information can be reviewed at local terminals, or printouts can be mailed from the computer center within a day.

The organizations listed below are coordinating centers for all the MEDLARS centers in their geographic regions. Coordinating centers can perform searches or identify a closer library that will do searches for a fee. Contact the center and ask for the MEDLARS search analyst.

New England Regional Medical Library Service
Francis A. Countway Library of Medicine
10 Shattuck Street
Boston, Massachusetts 02115
RML Associate Director: Arlee May
(617) 732-2128

New York and New Jersey Regional Medical Library
New York Academy of Medicine Library
Two East 103 Street
New York, New York 10029
RML Associate Director: Kay Due
(212) 876-8763

Mid-Eastern Regional Medical Library Service
Library of the College of Physicians
19 South 22 Street
Philadelphia, Pennsylvania 19103
RML Associate Director: June Fulton
(215) 561-6050

Mid-Atlantic Regional Medical Library
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20209
RML Associate Director: Peggy Beavers
(301) 496-5955

Kentucky-Ohio-Michigan-Regional Medical Library Program
Wayne State University
Shiffman Medical Library
4325 Brush Street
Detroit, Michigan 48201
RML Associate Director: Faith Van Toll
(313) 577-1101/1088

Southeastern Regional Medical Library Program
A. W. Calhoun Medical Library
Emory University
Atlanta, Georgia 30322
RML Associate Director: Michael J. Torrente
(404) 329-5818

Midwest Health Sciences Library Network
University of Illinois at the Medical Center
Library of the Health Sciences
Post Office Box 7509
Chicago, Illinois 60680
RML Associate Director: Ruby May
(312) 996-2464

Midcontinental Regional Library Program
Library of Medicine, University of
  Nebraska Medical Center
42nd and Dewey Avenue
Omaha, Nebraska 68105
RML Associate Director: Richard Pride
(402) 559-4326

South Central Regional Medical Library Program
University of Texas Health Science Center
5323 Harry Hines Boulevard
Dallas, Texas 75235
RML Associate Director: James (Pat) Craig
(214) 688-2627

Pacific Northwest Regional Health Sciences Library
University of Washington Health Sciences Library
Seattle, Washington 98195
RML Associate Director: Dale Middleton
(206) 543-8262

Pacific Southwest Regional Medical Library Service
Biomedical Library, Center for the Health Sciences
University of California
Los Angeles, California 90024
RML Associate Director: Darcy Van Vuren
(213) 825-1200

MEDLARS Data Bases

AVLINE

AVLINE (Audiovisuals On-line) includes all audiovisuals cataloged by NLM since 1975. Containing citations to over 11,000 audiovisual programs in the health sciences, AVLINE enables teachers, students, librarians, researchers, practitioners, and other health science professionals to retrieve titles that should be useful learning or continuing education materials. The data base includes a broad range of media, including motion pictures, videocassettes, slide/cassettes, and filmstrip/cassette programs and represents the productions of over 500 different distributors. AVLINE is updated weekly and therefore contains the most up-to-date bibliographic information for audiovisuals at NLM. Approximately 100 citations are added per month.

BIOETHICSLINE

BIOETHICSLINE was developed at the Kennedy Institute of Ethics, Georgetown University, with the aid of grants from the Extramural Programs of NLM and from the Joseph P. Kennedy, Jr. Foundation. It contains over 13,000 citations, dating from 1973. BIOETHICSLINE incorporates a variety of document types, including analytics (chapters in monographs), audiovisuals, bills, court decisions, laws, journal and newspaper articles, monographs, and unpublished documents. Materials are selected from the fields of medicine, nursing, biological sciences, philosophy, religion, law, and behavioral sciences, as well as from the popular media. It is a comprehensive, cross-disciplinary collection of references to print and nonprint materials on bioethical topics. The data base contains over

13,000 English-language citations from 1973 to present. Beginning with citations added to the data base in November 1982, abstracts are included for articles from selected core journals.

The citations in BIOETHICSLINE are also available in book form in a series of annual volumes, the Bibliography of Bioethics, published since 1981 (Volume 7) by The Free Press, a division of Macmillan Publishing Company, 866 Third Avenue, New York, New York 10022. The first six volumes of the Bibliography were published by Gale Research Company, Book Tower, Detroit, Michigan 48226.

CANCERLIT

CANCERLIT (Cancer Literature), formerly called CANCERLINE, is sponsored by the International Cancer Research Data Bank (ICRDB) Program of NCI and contains over 300,000 citations and abstracts of published literature discussing all aspects of cancer. The original data base was created from abstracts that had appeared in Cancer Therapy Abstracts from 1967 through 1973 and Carcinogenesis Abstracts from 1963 through 1973.

The scope of the data base was enlarged in 1977 to include not only the selected cancer topics appearing in these two secondary journals, but all other cancer-related articles. In addition, proceedings of meetings, government reports, symposia reports, selected monographs, books and theses are abstracted for inclusion in the data base. The collection of materials on all aspects of cancer began in early 1977, and the processing of additional source material began in late 1977. CANCERLIT is updated monthly with approximately 4,000 citations.

CANCERPROJ

Developed by the International Cancer Research Data Bank Program of NCI, CANCERPROJ (Cancer Research Projects) contains summaries of ongoing cancer research projects that have been provided by cancer scientists in many countries. The data for the project descriptions are processed by the Current Cancer Research Projects Analysis Center of the ICRDB Program. The data base includes projects funded during the three most recent fiscal years and currently contains approximately 20,000 project descriptions. Nearly 5,000 of these are from countries outside the United States. These descriptions include Federally and privately supported grants and contracts. It is intended that each project description will be updated yearly. CANCERPROJ is updated every three months.

CATLINE

CATLINE (Catalog On-line) represents serials and monographs cataloged by NLM and contains over 500,000 citations, with approximately 10,000 citations added each year. CATLINE is updated weekly; therefore, it contains the most up-to-date representations of NLM's cataloging. CATLINE is useful to libraries as a source of information for ordering books and journals and for providing reference and interlibrary loan services.

CHEMLINE

CHEMLINE is an on-line chemical dictionary supported by a contract with the Chemical Abstracts Service (CAS). It provides a mechanism whereby information on over 1,000,000 chemical substance names and corresponding CAS Registry Numbers, representing over 525,000 unique substances, can be searched and retrieved on-line. It primarily contains records for chemicals that are identified by CAS Registry Numbers in the TOXLINE, TOXBACK65, TOXBACK74, RTECS, TDB, and MEDLINE data bases, as well as the EPA Toxic Substances Control Act Inventory (TSCAINV) of Chemical Substances. CHEMLINE contains CAS Registry Numbers, molecular formulas, Chemical Abstracts (CA) index names, synonyms, various nomenclatural and structural fragments, and locator designations that point to other files in the NLM system containing information on that particular chemical substance or to TSCAINV. CHEMLINE also contains ring information, including, the number of rings within a ring system, ring sizes, ring elemental compositions, and component line formulas. The main purpose of CHEMLINE is to assist in searching free text data bases (notably TOXLINE) for information about chemical compounds. It provides other names (synonyms and trade names) for the chemical compound of interest and CAS Registry Numbers that can be used in the search. CHEMLINE also allows the user to locate generic classes of chemical compounds.

CLINPROT

CLINPROT (Clinical Cancer Protocols), developed by the ICRDB Program, contains approximately 3,400 summaries of clinical investigations of new anticancer agents and treatment modalities. Most of the protocol descriptions have been provided to the ICRDB Program by the Division of Cancer Treatment (DCT), NCI. Several hundred have also been supplied by major United States Cancer Centers and by sources outside the United States.

CLINPROT provides descriptions of clinical trials, including patient entry criteria, therapy regimen, and special study parameters. It is a small, highly specialized data base primarily designed for clinical oncologists who are actively engaged in the development and testing of clinical protocols. However, it will also be useful to other clinicians who wish to learn about new cancer treatment methods currently being evaluated in controlled clinical trials. CLINPROT is updated every three months.

EPILEPSY

EPILEPSY contains citations to abstracts in *Epilepsy Abstracts*. It was developed in cooperation with the National Institute for Neurological and Communicative Disorders and Stroke (NINCDS). The data base is obtained from *Excerpta Medica*, which publishes the monthly periodical *Epilepsy Abstracts* under contract to NINCDS. EPILEPSY contains approximately 36,000 abstracts from journal articles published from 1945 to the present. About 2,500 English-language abstracts are produced yearly. This data base is updated bimonthly.

HEALTH

HEALTH (Health Planning and Administration) contains citations to the literature dealing with the non-clinical aspects of health care delivery. Subject areas emphasized include the administration and planning of health facilities, services and manpower, health insurance, and aspects of financial management, regulation, personnel administration, quality assurance, and licensure and accreditation that apply to health care delivery. HEALTH currently consists of citations taken from MEDLINE, citations to articles from Special List Health journals and citations to non-journal literature. It is limited to English, French, and German languages and contains no case reports, animal studies, historical articles, or letters. HEALTH contains about 240,000 citations and is updated monthly with about 2,500 citations.

HISTLINE

HISTLINE (History of Medicine On-line) contains citations to monographs, journal articles, symposia, congresses, and similar composite publications for NLM's Bibliography of the History of Medicine. The scope includes the history of medicine and related sciences, professions, individuals, institutions, drugs, and diseases of given chronological periods and geographical areas.

HISTLINE currently includes approximately 50,000 citations. The majority of items were published from 1970 to the present, but there are selected citations to literature back to 1964. The data base is expected to increase by about 4,500 citations per year and will be updated quarterly.

MEDLINE

Contains all citations published in Index Medicus and certain journal citations that were entered into the data base during the current and three immediately preceding years. Older citations reside in the MEDLINE backfiles. The names, years of coverage, and number of citations of the MEDLINE backfiles are:

MED66	1966-70	955,000
MED71	1971-74	884,500
MED75	1975-76	643,000
MED77	1977-79	775,500

Articles are indexed from about 3,000 biomedical journals published in the United States and about 70 foreign countries. Some citations to chapters or articles from monographs are also included. Abstracts are added to the record when publishers have given NLM permission to use them.

PDQ

PDQ (Physician Data Query) is a user-friendly, physician-oriented, menu driven data base system designed to be accessed by computer users in an interactive mode. The Scientific Information Branch of the National Cancer Institute, in cooperation with the National Library of Medicine, is responsible for the design and implementation of PDQ. PDQ is another link in the NCI's efforts to reduce cancer mortality by providing easily accessible and state-of-the-art cancer treatment and referral information to physicians.

PDQ was developed to enable NCI to transfer cancer treatment information to the practicing physician in a timely and convenient manner. It was envisioned that the proliferation of personal computers would serve to facilitate communications channels to the physician and scientific communities. The menu format of PDQ information provides easy, convenient access for physicians who have no prior experience with information retrieval techniques.

There are three basic types of information in PDQ:

1. Cancer Information. This section contains prognostic, stage, cellular classification and state-of-the-art and investigational treatment options that have been reviewed by over 400 cancer experts. The information is available in a general format (Capsule Summaries) and a more detailed format (State-of-the Art Statements).

2. Directory. This section contains the names, addresses, telephone numbers, and other information for physicians and organizations that have a special interest in cancer treatment. This information can be readily accessed by the user for any specified geographic area.

3. Protocols. This section contains abstracts of research protocols that are open for patient entry. Each protocol summary includes study objectives, patient entry criteria, and the details of the treatment regimen. Closed protocols may also be retrieved for review.

The design of PDQ enables users to find out "who is doing what and where" through progressive steps of information retrieval, or users who have specific needs may retrieve information directly without having to review data which do not meet their particular needs.

For further information about PDQ, contact:

PDQ Information Coordinator
Scientific Information Branch
National Cancer Institute
R.A. Bloch Building, Room 105
9000 Rockville Pike
Bethesda, Maryland 20205

POPLINE

POPLINE (Population Information On-line) cites literature in the areas of family planning, fertility control, population, and reproduction and related health, law, and policy issues. The initial data base consisted of citations from POPINFORM, a data base maintained since 1973 by the Population Information Program, currently at the Johns Hopkins University, and the Center for Population and Family Health Library/Information Program of Columbia University. POPLINE contains citations and abstracts to a variety of materials including journal articles, monographs, technical reports, and unpublished works.

POPLINE currently contains approximately 100,000 citations. The majority of the items were published from 1970 to the present, but there are selected citations dating back to 1886. The data base increases by about 10,000 citations annually and is updated monthly.

RTECS

In September 1977, NLM added the 1976 edition of the data retrieval file known as the Registry of Toxic Effects of Chemical Substances (RTECS). RTECS is structured around individual chemical records of substances with toxic action. The original collection of data that makes up the Registry of Toxic Effects of Chemical Substances was known as the Toxic Substances List, compiled in 1971 by the National Institute for Occupational Safety and Health (NIOSH) in response to the Occupational Safety and Health Act of 1970.

RTECS is a single source document for basic toxicity information. RTECS includes toxicity data from a variety of printed sources, threshold limit values, aquatic toxicity ratings, air standards, NTP carcinogenic bioassay information, toxicological/carcinogenic review information, compound classification, and NIOSH Criteria Document availability. It is especially useful for retrieving information on a group of compounds or identifying a group of substances on the basis of a selected effect or criterion. On-line RTECS gives the user the flexibility of interactive searching and retrieval which can allow focus on subsets of data and data tailored to specific needs. The hard copy version of RTECS is updated annually with quarterly microfiche editions available. The current version is based on the 1979 printed edition plus quarterly updates. It contains toxicity data for over 57,000 substances.

SERLINE

SERLINE (Serials On-line) contains over 40,000 records representing all serials and numbered congresses which are on order, in process, or currently received at NLM. Ceased serials in the NLM collection are being added to the file gradually. SERLINE is used as the journal authority file in the input of citations to MEDLINE, POPLINE, and HEALTH for approximately 3,500 serial titles that are indexed for these data bases. It is designed to support interlibrary loan and cooperative acquisitions activities throughout the Regional Medical Library Network by providing readily searchable bibliographic and location information for biomedical serials. SERLINE can also be used to produce tailored listings of locally available serials, in special subject areas or languages, of important titles held by very few libraries in a region and of important titles not held in a region.

TDB

TDB (Toxicology Data Bank) is composed of approximately 4,000 comprehensive, peer-reviewed chemical records. It contains environmental, occupational, manufacturing, chemical, pharmacological, and toxicological data, as well as physical and chemical properties. The information in TDB is taken verbatim from the source, and references to the sources are given. Compounds selected for TDB include highly regulated chemicals, high volume production/exposure chemicals, and drugs and pesticides exhibiting high toxicity potential.

TOXLINE

TOXLINE (Toxicology Information On-line) is a bibliographic data base covering the pharmacological, biochemical, physiological, environmental, and toxicological effects of drugs and other chemicals. Almost all references in TOXLINE have abstracts and/or indexing terms and Chemical Abstracts Service (CAS) Registry Numbers. The TOXLINE data base contains over 1.4 million references. TOXLINE contains recent references, while older information is available in the backfiles.

APPENDIX F

HEALTH CLEARINGHOUSES

Appendix F

HEALTH CLEARINGHOUSES

The following is a list of resource centers, partially or fully funded by the Federal Government, that provide information or referral on health-related questions.

ARTHRITIS INFORMATION CLEARINGHOUSE
Post Office Box 9782
Arlington, Virginia 22209
(703) 558-8250

CANCER INFORMATION CLEARINGHOUSE
National Cancer Institute
Office of Cancer Communications
Building 31, Room 10A18
9000 Rockville Pike
Bethesda, Maryland 20205
(301) 496-4070

CANCER INFORMATION SERVICE
1-800-4-CANCER toll free
1-800-638-6070 in Alaska
636-5700 in Washington, D.C. and
  suburbs of Maryland and Virginia
524-1234 on Oahu (Neighbor islands
  call collect)

CENTER FOR HEALTH PROMOTION AND EDUCATION (CHPE)
Centers for Disease Control
1600 Clifton Road, Building 14
Atlanta, Georgia 30333
(404) 329-3235

CLEARINGHOUSE ON HEALTH INDEXES
National Center for Health Statistics
Center Building 2-43
3700 East-West Highway
Hyattsville, Maryland 20782
(301) 436-7035

CLEARINGHOUSE ON THE HANDICAPPED
Office of Special Education and Rehabilitative
  Services
Department of Education
Switzer Building, Room 3106
330 C Street, SW.
Washington, D.C. 20202
(202) 245-0080

CLEARINGHOUSE FOR OCCUPATIONAL SAFETY AND HEALTH INFORMATION
National Institute for Occupational Safety
and Health
4676 Columbia Parkway
Cincinnati, Ohio 45226
(513) 684-4287

DIVISION OF POISON CONTROL
Food and Drug Administration
5600 Fishers Lane, Room 1335
Rockville, Maryland 20857
(301) 443-6260

FOOD AND NUTRITION INFORMATION CENTER (FNIC)
National Agricultural Library Building, Room 304
Beltsville, Maryland 20705
(301) 344-3719

HUMAN NUTRITION INFORMATION SERVICE
U.S. Department of Agriculture
Consumer Nutrition Division
Federal Building, Room 304
Hyattsville, Maryland 20782
(301) 436-8507

NATIONAL CLEARINGHOUSE FOR MENTAL HEALTH INFORMATION
National Institute of Mental Health
Parklawn Building, Room 11A33
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-4513/4517

NATIONAL CLEARINGHOUSE ON ALCOHOL INFORMATION
Post Office Box 2345
Rockville, Maryland 20852
(301) 468-2600

NATIONAL CLEARINGHOUSE ON DRUG ABUSE INFORMATION
Parklawn Building, Room 10A53
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-6500

NATIONAL DIGESTIVE DISEASES EDUCATION AND INFORMATION CLEARINGHOUSE
1555 Wilson Boulevard
Suite 600
Rosslyn, Virginia 22209
(202) 496-9707

NATIONAL HEALTH INFORMATION CLEARINGHOUSE (NHIC)
Post Office Box 1133
Washington, D.C. 20013-1133
(800) 336-4797 toll free
(703) 522-2590 in Virginia

NATIONAL HEALTH PLANNING INFORMATION CENTER
Health Resources and Services Administration
Parklawn Building, Room 9A33
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-5274

NATIONAL HEALTH STANDARDS AND QUALITY INFORMATION CLEARINGHOUSE (NHSQIC)
11301 Rockville Pike
Kensington, Maryland 20895
(301) 881-9400

NATIONAL INFORMATION CENTER FOR HANDICAPPED CHILDREN AND YOUTH
Post Office Box 1492
Washington, D.C. 20013
(703) 528-8480

NATIONAL INJURY INFORMATION CLEARINGHOUSE
U.S. Consumer Product Safety Commission
5401 Westbard Avenue, Room 625
Washington, D.C. 20207
(301) 492-6424

NATIONAL LIBRARY SERVICE FOR THE BLIND AND PHYSICALLY HANDICAPPED
Library of Congress
1291 Taylor Street, NW.
Washington, D.C. 20542
(800) 424-8567
(202) 287-5100

NATIONAL REHABILITATION INFORMATION CENTER
Catholic University of America
4407 8th Street, NE.
Washington, D.C. 20017
(202) 635-5822
(202) 635-5884--TDD

OFFICE ON SMOKING AND HEALTH TECHNICAL INFORMATION
Parklawn Building, Room 116
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-1690

PROJECT SHARE
(includes health planning information)
Post Office Box 2309
Rockville, Maryland 20852
(301) 231-9539/9540

APPENDIX G

ACCREDITED RESIDENCIES IN PREVENTIVE MEDICINE--OCCUPATIONAL MEDICINE

APPENDIX G

ACCREDITED RESIDENCIES IN PREVENTIVE MEDICINE--OCCUPATIONAL MEDICINE

ARIZONA

ARIZONA CENTER FOR OCCUPATIONAL SAFETY AND HEALTH
D.H. Cordes, M.D., M.P.H., Program Director
University of Arizona Health Science Center
Department of Family and Community Medicine
Tucson, Arizona 85724

CALIFORNIA

UNIVERSITY OF CALIFORNIA (IRVINE) COLLEGE OF MEDICINE, DEPARTMENT OF COMMUNITY AND ENVIRONMENTAL MEDICINE
B. Dwight Culver, M.D., Program Director
University of California (Irvine) College of Medicine
Department of Community and Environmental Medicine
Irvine, California 92717

UNIVERSITY OF CALIFORNIA (SAN FRANCISCO) SCHOOL OF MEDICINE
James P. Hughes, M.D., Program Director
San Francisco General Medical Center
1001 Potrero Avenue, Building 30, 5th Floor
San Francisco, California 94110

DELAWARE

E.I. DuPONT De NEMOURS AND COMPANY
Robert N. Ligo, M.D., Program Director
Medical Division, Room 11400
Nemours Building
Wilmington, Delaware 19898

ILLINOIS

COOK COUNTY BOARD OF COMMISSIONERS
Stephen M. Hessl, M.D., M.P.H, Program Director
Cook County Hospital, Karl Meyer Hall
720 South Wolcott Street, Room 13A
Chicago, Illinois 60612

UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE AT CHICAGO
University of Illinois Hospital
University of Illinois School of Public Health
Bertram W. Carnow, M.D., Program Director
Department of Preventive Medicine and Community Health
Box 6998
Chicago, Illinois 60680

MARYLAND

JOHNS HOPKINS UNIVERSITY SCHOOL OF HYGIENE AND PUBLIC HEALTH
Edward A. Emmett, M.D., Program Director
Johns Hopkins University School of Hygiene and Public Health
615 North Wolfe Street
Baltimore, Maryland 21205

U.S. ARMY ENVIRONMENTAL HYGIENE AGENCY, ABERDEEN PROVING GROUND
John W. Cutting, M.D., Program Director
U.S. Army Environmental Hygiene Agency
Directorate of Occupational and Environmental Health
Aberdeen Proving Ground, Maryland 21010

MASSACHUSETTS

HARVARD SCHOOL OF PUBLIC HEALTH
Edward L. Baker, M.D., Program Director
Harvard School of Public Health
665 Huntington Avenue
Boston, Massachusetts 02115

MICHIGAN

FORD MOTOR COMPANY
Francis V. Viola, III, M.D., Program Director
Ford Motor Company--Associate Medical Director, Environmental Affairs
900 Parklane Towers West
Dearborn, Michigan 48126

UNIVERSITY OF MICHIGAN SCHOOL OF PUBLIC HEALTH
Lawrence J. Fine, M.D., Program Director
University of Michigan School of Public Health
109 South Observatory, Room M6017
Ann Arbor, Michigan 48109

MINNESOTA

MAYO GRADUATE SCHOOL OF MEDICINE/MAYO CLINIC
M.A. Amundsen, M.D., Program Director
Mayo Graduate School of Medicine
200 First Street, SW.
Rochester, Minnesota 55905

ST. PAUL-RAMSEY MEDICAL CENTER
James L. Craig, M.D., Program Director
St. Paul-Ramsey Medical Center
Department of Medicine
St. Paul, Minnesota 55101

NEW YORK

COLUMBIA UNIVERSITY SCHOOL OF PUBLIC HEALTH
I. Bernard Weinstein, M.D., and James A. Hathaway, M.D., Program Directors
Columbia University
School of Public Health
60 Haven Avenue
New York, New York 10032

EASTMAN KODAK COMPANY
Eastman Kodak Company-Medical Department
James Mitchell, M.D., Program Director
Eastman Kodak Company
343 State Street
Rochester, New York 14650

MOUNT SINAI SCHOOL OF MEDICINE, DEPARTMENT OF COMMUNITY MEDICINE
Mount Sinai Hospital
Irving J. Selikoff, M.D., Program Director
Mount Sinai School of Medicine
One Gustave Levy Place
New York, New York 10029

NORTH CAROLINA

DUKE UNIVERSITY MEDICAL CENTER
University of North Carolina School of Medicine and Public Health
Woodhall Stofford, M.D., M.S.P.H., Program Director
Duke University Medical Center
Post Office Box 2914
Durham, North Carolina 27710

OHIO

DHHS PUBLIC HEALTH SERVICE CENTERS FOR DISEASE CONTROL
National Institute for Occupational Safety and Health
Shiro Tanaka, M.D., Program Director
Centers for Disease Control, NIOSH
4676 Columbia Parkway
Cincinnati, Ohio 45226

UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE
Stuart M. Brooks, M.D., Program Director
University of Cincinnati, Institute of
Environmental Health
Medical Sciences Building, Room 5251
Cincinnati, Ohio 45267

TENNESSEE

MEHARRY MEDICAL COLLEGE SCHOOL OF
MEDICINE, DEPARTMENT OF COMMUNITY
AND OCCUPATIONAL HEALTH
George W. Hubbard Hospital of Meharry
Medical College
Richard A. Carter, M.D., M.P.H.,
Program Director
Meharry Medical College School of
Medicine
Dr. David B. Todd, Jr., Boulevard
Nashville, Tennessee 37208

TEXAS

UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER
SCHOOL OF PUBLIC HEALTH
Marcus M. Key, M.D., Program Director
University of Texas Health Science Center
School of Public Health
Post Office Box 20186
Houston, Texas 77025

UTAH

UNIVERSITY OF UTAH DEPARTMENT OF FAMILY
AND COMMUNITY MEDICINE
Rocky Mountain Center for Occupational
and Environmental Health
William N. Rom, M.D., M.P.H., Program
Director
University of Utah, Rocky Mountain
Center for Occupational/Environmental
Health
Building 512
Salt Lake City, Utah 84112